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(Signed)

GEORGE C. SPRAGUE, Editor.

Sworn to and subscribed before me this twenty second day of March, 1913.

FRANK A. FALL,

Notary Public, Westchester Co., New York.

Certificate filed in New York Co. No. 23

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[SEAL]

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THE SUMMER SCHOOL

GENERAL STATEMENT

THE Summer School of New York University will open at University Heights, New York City, for the nineteenth year on Tuesday, July 1, 1913, and will continue six weeks, closing August 11th. The majority of the Summer School courses will be given at University Heights but all courses in Law, most of the courses in Accounting and Finance and certain courses in Education will be given at the Washington Square Building of the University. The courses offered are, for the most part, duplicates or equivalents of regular courses given in the University Schools during the winter. Full University credit is given for them, when completed by satisfactory examinations, unless otherwise stated. Final examinations will be held August 9th and 11th and are optional with all students except those desiring credit or certificates for their work.

All classes meet daily Monday-Friday. The classes that meet one hour a day for six weeks are credited as thirty-hour courses; those meeting two hours a day are credited as sixty-hour courses. There are five one-hour periods in the morning session, the first beginning at 8.30 and the last at 12.30, and three one-hour periods in the afternoon. Courses at Washington Square will also be given in the afternoon from 5-7 o'clock and in the evening from 7-9 o'clock. The laboratories will be open for students on Saturday, but no class sessions will be held on that day.

Admission and Enrollment

All courses are open to both men and women who are qualified in the judgment of the instructor, to pursue them. No examination is required for admission. If a student takes a course for the purpose of obtaining credit in any one of the University Schools he must have satisfied the requirements for entrance to that school before entering upon the course.

Upon entering, the student should enroll at the office of the Director, in the Library (University Heights) or at the office of the Registrar (Tenth floor, Washington Square) and pay the required fee to the Bursar or his representative. He will then receive pass-cards entitling him to admission to the courses for which he has registered. The Director's office at University Heights will be open for consultation and enrollment beginning June 23d, from 10 a. m. to 1 p. m. and from 2 p. m. to 4 p. m.; the Registrar's office at Washington Square will be open throughout the summer, on week days 10 a. m. to 5 p. m., Saturdays excepted, when it will be open from 10 a. m. to 12 m.

Students will not be permitted to enroll for more than three hours of lectures a day and one laboratory course. In special cases permission may be granted students by the Director to take a fourth lecture hour as auditor without credit.

Fees

The charge for instruction in the Summer School (with the exception of courses offered in certain special departments named below) including the examination and certificate is at the rate of \$10.00 for each course of one hour a day for six weeks, except that students taking only one hour will be charged \$15.00. No matriculation fee is charged in the Summer School, but courses which are taken for the purpose of obtaining credit in other of the University Schools, will not be transferred for credit until the student shall have become a regularly matriculated student in that school.

Visitors wishing to attend the lecture courses of the Summer School may be admitted as auditors, for not over two weeks, upon payment of a fee of \$5.00 per week.

In the three weeks' courses of the Department of Arts the charge for instruction will be \$30.00 for each course. (See page 32.)

In the Music Department the fee will be \$15.00 for either the first year, second year or third year courses of five hours a day, for three weeks. For students taking a partial course the same rate per hour will be charged as in other departments. The tuition for the general courses in music will be at the regular rate of \$10.00 per hour.

In the Departments of Accounting and Finance the charge for

instruction will be \$25.00 for each two-hour course and \$15.00 for each one-hour course.

In the Department of Law the charge for instruction will be as follows: \$15.00 for each one-hour course when it is the only law course taken; \$25.00 for a two-hour law course or for two one-hour law courses; \$35.00 for three one-hour law courses or a two-hour and a one-hour law course when taken together.

Special fees for laboratory material are as follows:

Chemistry, Physics, Biology (each laboratory course of one hour credit)	\$5.00
Geology S2	3.00
Geology S11	5.00
Domestic Art S2, S5 or S6 (each course)	3.00
Domestic Art S4, S7, S8 (each course)	5.00
Basketry	4.00
Kindergarten Technique	2.00
Garden Course	3.00
Home Economics	10.00

There are no other charges except for breakage, in case of unusual carelessness in the handling of apparatus. In certain laboratory courses, however, deposits are required, which will be returned upon the surrender of apparatus and the payment of breakage.

The number of hours of any course upon which the charge per hour will be based will be found in italics at the end of the description of each course. A course meeting fifteen single hours is reckoned as a half University hour; a course meeting thirty hours, as one University hour; a course meeting sixty hours, as two University hours, etc.

CREDIT FOR SUMMER COURSES

The unit of University credit is the hour—which is the work of a course meeting one hour a week for an academic year of not less than thirty weeks, exclusive of vacations. The maximum amount of credit which is allowed in any of the University Schools for the work of a single Summer School is three hours, with one additional hour in special cases for laboratory work. A capital letter in brackets following the description of the course indicates the school

in which credit will be allowed for the course: (A) = Applied Science, (C) = Commerce, (D) = Collegiate Division, (G) = Graduate, (L) = Law, (P) = Pedagogy, (U) = University College. Credit will be allowed for Summer School work by the faculties of the various Schools of the University, as follows:

I. Credit in the School of Pedagogy

Credit will be given in the School of Pedagogy toward the degree of Pd.M. and Pd.D. for the courses indicated where the student desiring such credit is already a member of that School or is eligible for enrollment. *Faculty representative at the Summer School, Prof. James E. Lough.*

II. Credit in the Graduate School

Credit will be given in the Graduate School toward the degrees of M.A., M.S., Ph.D. and Sc.D., for those courses offered in the Summer School which are of graduate grade. In order to obtain such credit the student must:

(a) Be matriculated or qualified to matriculate in the Graduate School.

(b) Devote his entire time during the six weeks' session to one full course or two half courses. Students who enroll for more than this amount of work will be allowed no credit in the Graduate School. In any department, except Education, a full course requires two hours' classroom attendance daily; in the Department of Education three hours' classroom attendance is required daily.

The maximum credit allowed for the work of one Summer School will be one full course. All of the courses required for the degrees of M.A. or M.S. may be taken in the Summer School. *Faculty representative at the Summer School, Prof. T. W. Edmonson.*

III. Credit in University College

Credit will be given in the University College for courses taken in the Summer School which are equivalent to courses given in the college curriculum. The courses offered in the Summer School of 1913 which are accepted are as follows:

Biology, S1, S2, S3.	Italian, S1, S2, S3.
Chemistry, S1, S2, S3, S4, S5, S6.	Journalism, S1, S2.
Economics, S1, S2.	Latin, S4.
English, S1, S2, S3, S4, S9, S10.	Mathematics, S1, S2, S3, S4, S5, S6.
Finance, S1.	Mechanical Drawing, S1, S2, S3, S4.
French, S1, S2, S3.	Music, S1d, S2d, S3d.
Geology and Geography, S1, S2, S5, S6, S8, S9, S10.	Physics, S1, S2, S4, S5.
German, S1, S2, S3, S4.	Psychology, S1, S2.
Greek, S1, S3, S4.	Semitics, S1, S2, S4.
History, S1, S2, S4, S5.	Spanish, S1, S2.

A student who has completed two years or more of a college course in a college or university of recognized standing, may complete the work required for the bachelor's degree in Arts or Science at New York University by taking the courses, or equivalents recognized by the Faculty, required of such students for graduation, in the Summer School, provided that at least four sessions of the Summer School be attended and the work there elected be successfully completed. Four summer sessions are regarded as approximately equal to one year's work in the University College. *Faculty representative at the Summer School, Prof. T. W. Edmonson.*

IV. Credit in School of Applied Science

Credit will be given in the School of Applied Science for courses taken in the Summer School which are equivalent to courses in the curriculum in the School of Applied Science. The courses offered in the Summer School of 1913 which are so accepted are as follows:

SUMMER SCHOOL COURSES

APPLIED SCIENCE COURSES

Chemistry,	S1	= Chemistry	1
"	S3	= "	6
"	S4	= "	7 or 8
"	S6	= "	23 or 24
English,	S1	= English	3
French,	S2 and 3	= French	3
Geology,	S6 and 7	= Geology	13 and 14
German,	S2 and S3	= German	3

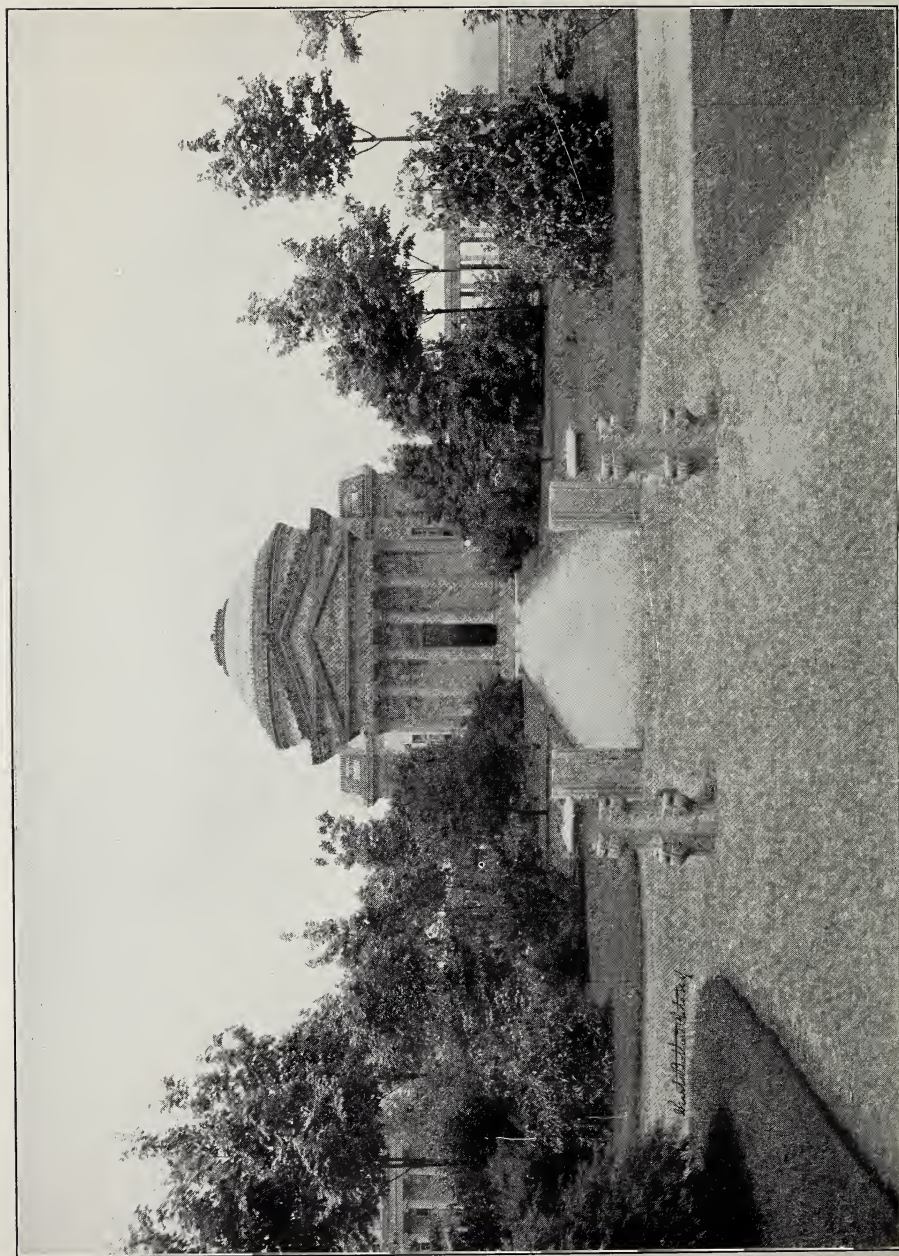


GOULD HALL



SOUTH HALL

TWO SUMMER SCHOOL RESIDENCE HALLS



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SUMMER SCHOOL COURSES		APPLIED SCHOOL COURSES	
Mathematics,	S1	= Mathematics	3*
Mechanics,	S1	= M. S.	2
"	S2	= M. S.	4
"	S3	= Physics	4
Mechanical Drawing,	S1	= M. D.	1
"	" S2	= M. D.	2
"	" S4	= M. D.	3
"	" S4	= M. D.	4
Physics,	S4 (2 hrs)	= Physics	7 or 8

Students desiring to secure credit in the School of Applied Science must secure permission to take summer work from the Faculty and must apply to the Director for a special form of certificate. *Faculty representative at the Summer School, Prof. A. E. Hill.*

V. Credit in the Collegiate Division

Courses in the Summer School which are of collegiate grade will be credited in the Collegiate Division, subject to the regulations of that School, toward the degree of B.S. in Pedagogy, provided the student is enrolled or eligible for enrollment in the Collegiate Division. *Faculty representative at the Summer School, Prof. James E. Lough.*

VI. Credit in the School of Law

The courses announced under the Department of Law will be credited towards the degrees of the University School of Law as follows:

Law S1, Statute Law of New York, will be credited towards the degree of Master of Laws, but not towards that of Bachelor of Laws.

Law S2, S3 and S4 will be credited towards the degree of Bachelor of Laws, but not towards that of Master of Laws.

In order to obtain credit for the above courses, a student must be already enrolled in the course of study of the Law School leading to the degree towards which the summer course he desires to pursue is

* Summer courses in Mathematics, with the exception of S1 (Algebra), will be credited in part only toward the corresponding courses in the School of Applied Science. Students should consult the Professor of Mathematics regarding credit for particular courses.

credited, or have satisfied the requirements for admission to such course of study.

VII. Credit in the School of Commerce

The courses in Accounting and Finance will be credited in the School of Commerce towards the degree of B.C.S. where the student is already enrolled or entitled to enrollment in that school. *Faculty representative in the Summer School, Prof. C. W. Gerstenberg.*

VIII. Credit for Admission

Certain courses in the Summer School may be taken for credit toward the entrance requirements of the University College, School of Applied Science and the University and Bellevue Hospital Medical College. Certificates showing the satisfactory completion of such courses in the Summer School will be accepted in lieu of entrance examinations in those subjects. Particulars as to these courses may be obtained by writing the secretaries of the respective schools.

IX. Credit by the Board of Education

Exemption on account of studies from examination for certain licenses to teach in the Public Schools of the City of New York.

Students otherwise qualified to apply for licenses to teach in New York City, who complete certain courses in the University Summer School, may be exempted in part from examinations for certain of their licenses, viz.: license for promotion, license as assistant to principal, and license as principal in elementary schools.

For information respecting the exemptions to be secured, and the scope and character of examination for teachers' licenses, application should be made to the office of the City Superintendent of Schools, Park Avenue and Fifty-ninth Street, New York, N. Y.

Bulletins containing full information regarding admission, courses, requirements for degrees, etc., in the various schools of the University will be sent without charge upon application to the Registrar, New York University, Washington Square, New York City. A student should consult the bulletin of the school in which he wishes credit before electing summer work.

University Heights

University Heights is in the northern part of New York City, in the Borough of the Bronx, twelve miles from the lower end of Manhattan Island. The campus, which covers forty acres, lies on a high ridge, overlooking the Harlem River, the Palisades of the Hudson, and Long Island Sound. This ridge of land, with its low temperature and favorable breezes, renders University Heights a most inviting spot for the Summer School. Van Cortlandt Park, with its excellent public golf links and tennis courts, can be reached in five minutes on the New York and Putnam Railroad. Bronx Park, with its Botanical Museum and Garden and its Zoölogical Garden, is about a mile from the University, and can be reached by trolley.

University Heights is reached from downtown by any of the following routes: 1. By the Broadway subway to West 181st Street station, thence by Aqueduct Avenue trolley across Washington Bridge to the University campus. 2. By the Broadway subway (Kingsbridge express) to West 207th Street station, then across the University Heights Bridge, and by private path to the right to the campus—a walk of ten minutes from the station. 3. By either the Sixth or the Ninth Avenue Elevated Lines to 155th Street, thence by the New York and Putnam Railroad to University Heights or by the Ogden Avenue trolley, across Central Bridge to the campus. 4. New York Central Railroad, from the Grand Central station at Forty-second Street to University Heights station—a ride of twenty five minutes. The University campus is seven minutes' walk from University Heights station.

Students coming from Yonkers, Mount Vernon, or New Rochelle, or from points on the New Haven or Harlem Railroads, will find University Heights easily accessible by any of the Union Railway trolley lines.

Washington Square

The University Building at Washington Square is located within five minutes walk of the Astor Place station of the subway, the Ninth Street stations of the Third Avenue and Sixth Avenue elevated lines and of the Hudson Tube. The courses in Law, Finance, Accounting and other subjects which are to be given in this building will be held in the class-rooms on the eighth, ninth and

tenth floors of the University Building looking out over Washington Square Park. Students taking courses at both University Heights and Washington Square should allow one hour's time for the journey between the two divisions.

Library and Laboratories

Summer School students will have the use of the University Library at University Heights and will be allowed to draw upon its complete collection of books. The hours during which the Library is open during the Summer School are:

Monday-Friday	8 A.M. to 6 P.M. and 7 P.M. to 9 P.M.
Saturday	9 A.M. to 1 P.M.

Reference books in the various departments are arranged in the respective seminar rooms, which are planned to afford every facility for advanced study. Special books designed for general consultation and reference will be placed on the reservation shelves in the General Reading Room, where they will be easily accessible to all. The reading room of the library, containing the latest magazines and periodicals, will be open throughout the Summer School at the same hours as the Library. The Law Library at Washington Square will be open during the summer 10 A.M. to 5 P.M.

Students taking courses in sciences will carry on their experimental work in the University laboratories, and will have the entire resources of those laboratories at their disposal for research work.

Social Life

On Friday afternoon, July 4th, from 4 until 6, a reception and lawn party will be tendered to all students of the Summer School affording them an opportunity to meet the members of the Faculty.

Informal dances will be held in the gymnasium one evening each week during the session.

The music room in Gould Hall and the room in Association Hall will be open for social gatherings of students in the evening.

Twilight meetings will be held each Sunday evening at half past six on the lawn of Battery Hill.

A number of special lectures will be given during the Summer School session by the various instructors. These will be given during the afternoon and evening, the time and place of meeting being announced upon the bulletin board. There will also be concerts and organ recitals by the Music Department.

No stated lectures are scheduled for Saturday, and that day is left free for those students who wish to visit places of interest in and about New York City. Excursions will be organized among the students of the Summer School and visits will be made to the Museum of Art, the Museum of Natural History, the Brooklyn Navy Yard, Vacation Schools, the Immigrant Station at Ellis Island, the ocean beaches and West Point. These excursions will be under the direction of a capable leader appointed by the Summer School. A number of Saturday excursions are also conducted under the auspices of the Bronx Institute of Arts and Sciences, in which the students of the Summer School are invited to join.

A baseball field, quarter-mile running track and several excellent tennis courts upon the University grounds are offered free to students. The public golf links at Van Cortlandt Park, the bath houses for sea bathing in Pelham Park (directly east of the University), walks and cycling through the fine parkways and beautiful country of the Bronx and upper New York, offer unrivalled facilities for exercise and athletic diversion.

Language Hall 15 will be open as a rest room for women from 11.30 A.M. to 2 P.M. each day.

Residence at University Heights

Gould Hall, the gift of Miss Helen Miller Gould, is designed for 112 students. The construction allows a choice of single rooms or rooms in suites, differently arranged for one, two or three students. The building is of modern fireproof construction and lighted by electricity. One-half of Gould Hall, complete in its appointments, and entirely separated from the other half, is set aside for the exclusive use of women students, and will be under the supervision of a resident lady member of the faculty.

The University Residence Houses will include, the present summer, East Hall; South and West Halls—the two large brick mansions on the Schwab estate recently presented to the University and refitted

as college dormitories; and, in addition, such fraternity houses and private residences as may be required. The houses on the Schwab estate are beautifully situated on the edge of the bluff, and are surrounded by fine trees. Their broad piazzas command splendid views and will be found very cool and attractive.

Rooms will be ready for occupancy on Monday afternoon, June 30th. The houses on the Schwab estate will be reserved for women. Married couples may secure rooms in the University Houses, when either the husband or wife is a member of the Summer School. When parents are accompanied by a child, they will be assigned rooms in a private house near the campus.

The rates for rooms are \$10.00-\$16.00 per person for six weeks, or \$7.00-\$10.00 for three weeks according to location. A circular giving floor plans and rentals will be mailed upon application. The rental charge includes hot and cold baths, light, service and necessary furniture. The University will supply bedclothing and towels when desired at a charge of \$2.00 for washing for the period of six weeks.

Students are advised to secure their rooms in advance, as difficulty is experienced each year in finding comfortable accommodations promptly for those arriving at the opening of the school without previous notice. Rooms will be reserved in the order of application on payment of a deposit of \$5.00. A student who is unable to use a room on which a deposit has been made, may transfer his right to another student. The deposit will be returned by the University only in case it receives notice of the intention to surrender the room before the opening of the school, and in case the room is rented to another student.

Applications, with the \$5.00 deposit, should be sent to the Superintendent of Grounds and Buildings, Mr. Albert Woolsey, University Heights, New York City.

Table Board

The Dining Hall is located directly south of Gould Hall and less than a minute's walk from that building. It is newly fitted and will accommodate 200 comfortably at one time. A lunch room for students not living at the Heights will be conducted in the Engineering Building. The rates for board are as follows:

By the week, 21 meals	\$5.50
From Monday lunch to Friday lunch inclusive, 13 meals,	4.50
Lunch <i>à la carte</i> .	

Board may also be secured at boarding houses in the neighborhood, at the fraternity houses, or in private families.

Students who desire to meet part of the expenses of the Summer Session may secure positions as waiters in the dining hall by addressing the Manager of the Dining Room, Mrs. Bertha F. Grimes, University Heights, New York City.

Baggage Delivery

With the receipt for deposit for room the Superintendent will send tags, properly addressed, to be attached to baggage. To secure prompt delivery of baggage at University Heights, students should place one of these tags on each piece and should give their checks to agents of the Westcott Express Company, or New York Transfer Company, who will be found in uniform at all terminals, and who will give a receipt for delivery of the baggage at the student's room for 75 cents per piece. Students who have not engaged rooms in advance should direct the transfer agent to deliver baggage to Albert Woolsey, Superintendent, New York University, Aqueduct Avenue and 181st Street, Bronx. Students from stations on the New York Central or New Haven lines can check baggage from their residence on payment of 75 cents per piece. Those who have not arranged for delivery of baggage before arrival at University Heights should hand their checks to the clerk in the college office.

Mail

Mail for students of the Summer School should be addressed in care of New York University, University Heights, New York City. It will be delivered at the college post-office in the library, at 8.15 10.15, 3.15 and 5.15. A limited number of lock boxes may be rented by those who desire them at 25 cents, with a deposit fee to ensure the return of the key.

SCHEDULE OF HOURS OF LECTURES

(University Heights)

(Subject to change to meet convenience of instructors and students)

Hour (Mon.-Fri.)	Course	Room
8.30-9.30 A. M.	Biology 1—General Zoology (Lecture). ¶Chemistry S 1—General Chemistry (Lecture). Domestic Art S 1—Basketry. Economics S 1—Elements of Economics. ¶Education S 3—Principles and Methods of Teaching. Education S 11—Reading and Dramatic Interpretation. English S 10—Current Problems. ¶Finance S 1—Corporation Finance. ¶Geography S 5—Geography of Commerce and Industry. German S 1—Beginner's German. German S 4—Grillparzer's Dramas. History S 4—Ancient History. ¶Home Economics S 1—General Course. ¶Home Economics S 2—Advanced Course. ¶Kindergarten S 2—Kindergarten Technique—Gifts.* ¶Kindergarten S 3—Songs, Rhythms and Games.† Latin S 1—Beginner's Course. Mathematics S 2—Solid Geometry. Mathematics S 4—Analytic Geometry. ¶Mechanical Drawing S 3—Mechanical Drafting.* ¶Mechanical Drawing S 4—Mechanical Drafting (Adv.).† ¶Mechanics S 1—Theoretical and Applied Mechanics. ¶Mechanics S 2—Mechanics of Materials. Music S 3 a—Study of Material in Primary Grades.† Music S 2 b—Dictation.† Music S 4 c—Practice Teaching.† Psychology S 3—Abnormal Psychology. Spanish S 2—Second Year Spanish.	Biology Lecture Room. Havemeyer Laboratory. Association Hall. Economic Seminar Room. Language Hall, 24. Language Hall, 14. Language Hall, 22. Language Hall, 11. Geology Lecture Room. Language Hall, 34. Language Hall, 32. Language Hall, 31. Havemeyer Laboratory. Havemeyer Laboratory. Language Hall, 15. Language Hall, 15. Language Hall, 35. Language Hall, 25. Language Hall, 21. Green Laboratory. Green Laboratory. Engineering Building. Engineering Building.
	Art S 1 and 2—Practice of Design.* ¶Chemistry S 1—General Chemistry (Lecture). ¶Domestic Art S 2—Primary Construction Work. ¶Domestic Art S 4—Dressmaking. Economics S 2—Industrial Organization. Education S 2—Seminar in History of Education. ¶Education S 3—Principles and Methods of Teaching. English S 3—English Poets of XIX Century. ¶English S 5—Studies in Poetry and Prose. ¶Finance S 1—Corporation Finance. French S 1—Elementary French. ¶Gardens S 1—School Gardens. ¶Geography S 5—Geography of Commerce and Industry. ¶German S 5—History of German Literature. History S 1—American History (1787-1861). ¶Home Economics S 1—General Course. ¶Home Economics S 2—Advanced Course. ¶Kindergarten S 2—Kindergarten Technique—Gifts.* ¶Kindergarten S 3—Songs, Rhythms and Games.† Latin S 4—Cicero's Letters to Atticus. Mathematics S 3—Trigonometry. Mathematics S 5—Differential Calculus. ¶Mechanical Drawing S 3—Mechanical Drafting.* ¶Mechanical Drawing—Mechanical Drafting (Adv.).† ¶Mechanics S 1—Theoretical and Applied Mechanics. ¶Mechanics S 2—Mechanics of Materials. Music S 4 a—Methods in Music in Primary.† Music S 3 b—Study of Material in Primary.† Music S 5 c—Harmony.† Music S 1 d—Appreciation of Music. Physical Education S 3—Games. Physics S 1—Mechanics, Heat, Sound. Psychology S 1—General Psychology. Semitics S 1—Beginners' Hebrew. Spanish S 1—Beginners' Course.	Havemeyer Hall. Havemeyer Laboratory. Association Hall. Association Hall. Economic Seminar Room. Language Hall, 14. Language Hall, 24. Language Hall, 22. Language Hall, 35. Language Hall, 11. Language Hall, 34. University Gardens. Geology Lecture Room. Language Hall, 32. Language Hall, 31. Havemeyer Laboratory. Havemeyer Laboratory. Language Hall, 15. Language Hall, 15. Latin Seminar Room. Language Hall, 25. Language Hall, 21. Green Laboratory. Green Laboratory. Engineering Building. Engineering Building.
9.30-10.30. A. M.		Music Room. Gymnasium. Butler Hall. Language Hall, 12. Hebrew Seminar Room. Romance Seminar Room.

¶Class meets for two consecutive hours.

*These courses extend from July 1-July 21.

†These courses extend from July 22-August 11.

SCHEDULE OF HOURS OF LECTURES (Continued.)

(University Heights.)

(Subject to change to meet convenience of instructors and students.)

Hour (Mon.-Fri.)	Course	Room
10.30-11.30 A. M.	¶Art S 1—Methods of Teaching the Arts.*	Auditorium.
	Biology S 2—Comparative Anatomy.	Biology Lecture Room.
	¶Chemistry S 2—General Chemistry (Laboratory).	Havemeyer Laboratory.
	¶Domestic Art S 2—Primary Construction Work.	Association Hall.
	¶Domestic Art S 4—Dressmaking.	Association Hall.
	¶Education S 1—History of Education.	Language Hall, 14.
	Economics S 3—Advanced Economics.	Economic Seminar Room.
	Education S 12—Methods of Model Teaching.	Language Hall, 11.
	English S 4—Modern English Drama.	Language Hall, 22.
	¶English S 5—Studies in Poetry and Prose.	Language Hall, 35.
	¶English S 9—Argumentation and Public Speaking.	Language Hall, 24.
	¶Gardens S 1—School Gardens.	University Gardens.
	Geography S 6—Geography of North America.	Geology Seminar Room.
	Geology S 3—General Geology.	Geology Lecture Room.
	German S 3—German Conversation for Beginners.	Language Hall, 34.
	¶German S 5—German Literature.	Language Hall, 32.
	History S 2—American Government and Administration.	Language Hall, 31.
	History S 6—The French Revolution.	History Seminar Room.
	¶Home Economics S 1—General Course.	Havemeyer Laboratory.
	¶Home Economics S 2—Advanced Course.	Havemeyer Laboratory.
	Journalism S 1—Short Stories.	Politics Seminar Room.
	Kindergarten S 1—Froebel's Mother Play.	Language Hall, 15.
	Latin S 3—Prose and Composition.	Language Hall, 25.
	¶Latin S 5—Cicero's Life and Letters.	Latin Seminar Room.
	Mathematics S 6—Integral Calculus.	Language Hall, 21.
	¶Mechanical Drawing S 1—Descriptive Geometry.	Green Laboratory.
	¶Mechanics S 3—Sound, Light.	Engineering Building.
	Music S 1 a—Sight Reading.†	
	Music S 5 b—Melody Writing.†	
	Music S 2 c—Dictation.†	
	Music S 2 d—Pianoforte Literature.	Music Room.
	Physical Education S 4—Group Organization.	Gymnasium.
	Physics S 2—Light, Magnetism, Electricity.	Butler Hall.
	Semitics S 2—Intermediate Hebrew.	Hebrew Seminar Room.
11.30-12.30.	¶Art S 1—Methods of Teaching the Arts.*	Auditorium.
	Biology S 3—Human Anatomy and Physiology.	Biology Lecture Room.
	¶Chemistry S 2—General Chemistry (Laboratory).	Havemeyer Laboratory.
	Domestic Art S 3—Methods and Textiles.	Association Hall.
	¶Education S 1—History of Education.	Language Hall, 14.
	¶English S 9—Argumentation and Public Speaking.	Language Hall, 24.
	Finance S 4—American Financial History.	Language Hall, 11.
	French S 2—Intermediate French.	Language Hall, 34.
	¶Gardens S 1—School Gardens.	University Gardens.
	Geography S 1—Geography of the Lands.	Geology Lecture Room.
	German S 2—Modern German Comedy.	Language Hall, 32.
	History S 3—History of U. S. since 1860.	Language Hall, 31.
	History S 5—History of the XIX Century.	Language Hall, 35.
	¶Home Economics S 1—General Course.	Havemeyer Laboratory.
	¶Home Economics S 2—Advanced Course.	Havemeyer Laboratory.
	Journalism S 2—Writing for the Press.	Politics Seminar Room.
	Latin S 2—Vergil's Aeneid.	Language Hall, 25.
	¶Latin S 5—Cicero's Life and Letters.	Latin Seminar Room.
	Mathematics S 1—Algebra.	Language Hall, 21.
	¶Mechanical Drawing S 1—Descriptive Geometry.	Green Laboratory.
	¶Mechanics S 3—Sound, Light.	Engineering Building.
	Music S 6 a, b, c. Chorus.†	Auditorium.
	Music S 3 d. The Modern Opera.	Music Room.
	Physical Education S 5—School Athletics.	Gymnasium.
	Psychology S 2—Social Psychology.	Language Hall, 12.
	Semitics S 4—Aramaic.	Hebrew Seminar Room.

¶Class meets for two consecutive hours.

*These courses extend from July 1-July 21.

†These courses extend from July 22-August 11.

SCHEDULE OF HOURS OF LECTURES (*Continued.*)

(University Heights.)

(Subject to change to meet convenience of instructors and students.)

Hour (Mon.-Fri.)	Course	Room
12.30-1.30 P. M.	Domestic Art S 5—Costume Designing. Education S 13—Methods of Teaching H. S. Physics. Greek S 1—Beginner's Course. ¶Physics S 4—Laboratory Course.	Association Hall. Butler Hall. Language Hall, 11. Butler Hall.
2-3 P. M.	Accounting S 5—Advanced Accounting Problems. ¶Art S 2—Principles of Design.* ¶Chemistry S 3—Qualitative Analysis (Laboratory). ¶Chemistry S 4—Quantitative Analysis (Laboratory). Domestic Art S 6—Hand Sewing. Domestic Art S 7—Embroidery. ¶Domestic Art S 8—Millinery. Education S 7—Development of Secondary Education. ¶Education S 13—Methods of Teaching H. S. Physics. Education S 14—General Method. English S 1—English Composition. French S 3—Reading, Composition and Conversation. Greek S 2—Xenophon's Anabasis. Kindergarten S 1—Program Making and Method. ¶Mechanical Drawing S 2—Descriptive Geometry (Adv.).† Music S 2 a—Rote Songs and Dictation.† Music S 4 b—Meth. Teaching Music, Grammar Grades.† Music S 3 c—High School Music.† Physical Education S 1—Aesthetic and National Dances. ¶Physics S 4—Laboratory Course.	Language Hall, 15. Auditorium. Havemeyer Laboratory. Havemeyer Laboratory. Association Hall. Association Hall. Association Hall. Language Hall, 14. Butler Hall. Language Hall, 24. Language Hall, 22. Language Hall, 34. Language Hall, 11. Language Hall, 12. Green Laboratory. Gymnasium. Butler Hall.
3-4 P. M.	¶Art S 2—Principles of Design.* ¶Biology S 5—Anatomy for Teachers. ¶Chemistry S 3—Qualitative Analysis (Laboratory). ¶Chemistry S 4—Quantitative Analysis (Laboratory). ¶Domestic Art S 8—Millinery. Education S 8—Comparative School Systems. Education S 15—Methods in Elementary Schools. English S 2—Advanced English Composition. Greek S 3—Homer's Iliad. Kindergarten S 6—Kindergarten Seminar. ¶Mechanical Drawing S 2—Descriptive Geometry (Adv.).† Music S 5 a—Rudiments of Music.† Music S 1 b—Sight Reading.† Music S 1 c—Sight Reading.† Physical Education S 2—Folk Dances and Classical Ex. ¶Physics S 3—Photography.	Auditorium. Biological Laboratory. Havemeyer Laboratory. Havemeyer Laboratory. Havemeyer Laboratory. Association Hall. Language Hall, 14. Language Hall, 24. Language Hall, 22. Language Hall, 11. Language Hall, 12. Green Laboratory. Gymnasium. Butler Hall.
4-5 P. M.	Art S 1 and 2—Practice of Design.* ¶Biology S 1—Anatomy for Teachers. Education S 16—Methods in English. Education S 17—Tree Studies. Greek S 4—Greek Art. Kindergarten S 4—Stories and Story Telling. ¶Physics S 3—Photography.	Green Laboratory. Biological Laboratory. Language Hall, 24. Language Hall, 14. Language Hall, 11. Language Hall, 12. Butler Hall.

¶Class meets for two consecutive hours.

*These courses extend from July 1-July 21.

†These courses extend from July 22-August 11.

SCHEDULE OF HOURS OF LECTURES

(Washington Square.)

(Subject to change to meet convenience of instructor and students).

Hour (Mon.-Fri.)	Course	Room
9-10 A. M.	¶Education S 4—Principles of Education. ¶Education of Defectives. ¶Law S 1—Statute Law of New York.	L 2. P 1, 2, 3, 4, 5, 7, 8, 9, 10, 11. L 3.
10-11 A. M.	¶Education S 4—Principles of Education. ¶Education S 9—Experimental Pedagogy. ¶Education of Defectives. ¶English S 12 a and b—English for Foreigners. ¶Law S 1—Statute Law of New York.	L 2. G 2 P 1, 2, 3, 4, 5, 7, 8, 9, 10, 11. C 1. L 3.
11-12 A. M.	¶Education S 5—School and Class Management. ¶Education S 9—Experimental Pedagogy. ¶Education of Defectives. ¶English S 12 a and b—English for Foreigners.	C 2. G 2. P 1, 2, 3, 4, 5, 7, 8, 9, 10, 11. C 1
12-1 P. M.	¶Education S 5—School and Class Management.	C 2.
2-3 P. M.	Education of Defectives. English S 8—Formal English Grammar. History S 7—Europe and the Near East. Italian S 1—Beginner's Course. ¶Psychology S 5—Experimental Psychology. Semitics S 3—Advanced Hebrew.	P 1, 2, 3, 4, 5, 7, 8, 9, 10, 11. C 1. C 2 G 3. G 2. G 4.
3-4 P. M.	Education of Defectives. English S 7—XIX Century Prose. Italian S 2—Intermediate Course. Law S 3—Personal Property. Philosophy S 1—Logic. Psychology S 4—Educational Psychology. ¶Psychology S 5—Experimental Psychology. Semitics S 5—Targum on Genesis.	P 1, 2, 3, 4, 5, 7, 8, 9, 10, 11. C 1. G 3. L 3. C 2. C 3. G 2. G 4.
4-5 P. M.	Education S 6—General Method. Education of Defectives. English S 6—Comedies of Shakespeare. Italian S 3—Advanced Course. Law S 2—Persons and Domestic Relations. Philosophy S 2—Ethics. Hebrew S 6—Rabbinic.	C 3. P 1, 2, 3, 4, 5, 7, 8, 9, 10, 11. C 2. G 3. L 3. C 1. G 4.
5-6 P. M.	¶Accounting S 1 a—Bookkeeping Teehnieue. ¶Accounting S 6—Theory of Accounting. ¶Finance S 1—Business Law. Law S 4—Criminal Law.	P 10. P 8. C 1. L 3.
6-7 P. M.	¶Accounting S 1 a—Bookeeping Teehnieue. ¶Accounting S 6—Theory of Accounting. ¶Finance S 5—Business Law.	P 10. P 8. C 1.
7-9 P. M.	¶Accounting S 2—Principles of Accounting. ¶Accounting S 3—Accounting Practice. ¶English S 11—Business English. ¶Finance S 2—Principles of Insurance. ¶Finance S 3—Analyses of Corporation Reports.	P 10. P 8. C 1. C 2. P 4.

¶Class meets for two consecutive hours.

*These courses extend from July 1—July 21.

†These courses extend from July 22—August 11.

DEPARTMENTAL ANNOUNCEMENTS

ACCOUNTING

S1a. Bookkeeping Technique

Washington Square,
5-7

MR. W. B. JOHNSON

The purpose of the course is to prepare the student for admission to the university accounting courses, and everything which is not strictly within the domain of bookkeeping is excluded. The course covers, in a gradual and rational way, all transactions which are likely to occur in the conduct of a business. Special attention is paid to journalizing, the stumbling-block of so many bookkeepers. The aim is to so train the student that he will be able to express, in journal entry form, any bookkeeping facts which may be represented to him.

The course adopts, as a starting point, the single entry system of bookkeeping; events and transactions are so arranged as to impress upon the student the inadequacy of the system when applied to an active modern business. Double entry is then introduced. The evolution of the original journal into the modern journals, such as cash, sales, purchases, notes and bills receivable and payable, is impressed upon the student through the means of practical illustrations, showing the necessity for the improvements made. Controlling accounts are brought into play, illustrating the functions of underlying ledgers. The books used in the course are so arranged as to lead the student to the clear comprehension of their purpose, and to the mastery of modern methods.

Credit 2 hours. (C.)

(Credit will not be allowed for this course to students who take more than 120 hours in accounting.)

S2. Principles of Accounting

Washington Square,
7-9

MR. JOHNSON

The aim of this course is to give the student a thorough foundation in the fundamental principles of accounting. Practice is regarded as most essential, and students are required to work out a complete series of transactions in

books of account provided for the purpose, which are identical with those used in business. The subject-matter is analyzed and discussed and the method of treatment demonstrated by the instructor.

The transactions are founded on cases taken from actual practice. They begin with the accounts of the sole proprietor whose books are kept by single entry; following this the change is made from single to double entry; the books are subsequently changed from a cash basis to an accrual basis; the sole proprietor from simple trading goes into manufacturing; he takes in a special partner who later becomes a general partner; a participation in the profits is sold to a third party; the original proprietor retires; his place is taken by a new partner; the other partner dies; the remaining partner incorporates; the business of the copartnership is taken over by the corporation; good will is involved in the transaction; new and up-to-date methods are introduced; goods are shipped and likewise received on consignment; new capital is secured by an issue of bonds; the bonds contain a sinking fund clause which provides for their redemption; the corporation subsequently gets into financial difficulties; a receiver is appointed and the company is liquidated. The work throughout is interspersed with the preparation of financial statements.

Credit, 2 hours. (C.D.)

S3. Accounting Practice

Washington Square,

7-9

ASSISTANT PROFESSOR DOUGLAS

The work of this course is based on practical problems in accounting, illustrating in greater detail the principles taught in Course S2. The problems are divided into two groups, those for demonstration and those for practice. The demonstration problems are used in the class-room while students are required to work out independently the practice problems and submit them for review and criticism. Special attention is given to the method of solving problems which cover such topics as sole proprietorships, copartnerships, corporations, consolidations and holding companies.

Corporation problems cover organization, receiverships, reorganization and sale to other corporations; the capital stock accounts such as preferred, common, cumulative, subscriptions, treasury and scrip; the various capital assets and investments, working and trading assets, deferred assets, sinking funds; bonds and debentures, current liabilities, reserves and deferred liabilities; also all the phases peculiar to the various accounts, such as the depreciation of property and plant accounts; the proper valuation of raw material, goods in process, finished goods, securities and investments in

general; the unexpired proportion of the expenses paid in advance; the accrual of taxes, interest, rent, etc.

Special attention is given to the preparation of balance sheets, statements of income and profit and loss, realization and liquidation, and statements of affairs and deficiency.

Credit 2 hours, (C.)

S5. Advanced Accounting Problems

Language Hall, 15

2-3

PROFESSOR WILDMAN

This work contemplates problem studies of the most difficult nature. Students desiring to enter this course must possess special fitness for this kind of work, as evidenced by the work of the second year.

The problems selected for the work are such as will serve to broaden the student's power to apply to the various lines of business the principles learned during the first and second years. They cover such lines as accounting, banking, brokerage, commissions, clubs, engineers and shipbuilders, gas companies, hospitals, insurance companies, libraries, steam railroads, telephone companies, publishers, mining companies, and warehouse companies.

Credit 1 hour. (C.)

(Students desiring to take this course must make application before June 15, as the course will not be given unless a sufficient number enroll.)

S6. Theory of Accounting

Washington Square,

5-7

MR. MADDEN

This course is so arranged as to develop the subject logically and make clear to the student not only the relation of the various topics of this subject, but the relation of accounting to allied subjects, such as economics, law, finance, and business organization.

The lecture work is supplemented by frequent quizzes, both oral and written, bearing on prior lectures. Accounting is shown to be a science rather than an art. Books are discussed with regard to the reasons for keeping them, the desirability for having adequate and proper media in which to record the transactions incident to business operations; books which will gather together and summarize comprehensively the data necessary to set forth the history of business operations and the results of such operations as are reflected by statements of financial condition; the different types of books; evolution of the modern types; columnarization. Accounts are classified and so arranged in the books as to facilitate the preparation of

financial statements; the purpose which controlling accounts serve; what real accounts reflect; why nominal accounts are necessary; the grouping of accounts. Accounting technique is discussed including the various methods of keeping books and the manner of keeping the accounts in accordance with the ethics of accounting. The various theories on which accounting is based, the effect of common as well as statute law upon accounting, the requirements which modern financial methods have made necessary and the manner in which the accounting is co-ordinated with business organization are discussed.

Credit 2 hours. (C.)

ART

Director of the Department

JAMES PARTON HANEY, B.S., M.D.

(Director of Art, High Schools, New York City)

The Summer School of the University offers in the session of 1913 two courses in the Arts. These courses will be given by Dr. Haney *in the first three weeks of the session* (from July 1 to July 21).

Both courses are double courses of 60 hours sessions, and each offers *elective* studio practice. The first presents a new thirty-hour course in the Practice of Design, combined with a new thirty-hour course in Methods of Teaching the Arts to grade teachers and normal students. These lectures are especially planned for supervisors and teachers in normal schools.

The second course offers the lectures and studio-work in Practice of Design, combined with a thirty-hour course in Principles of Design.

The Practice of Design course is thus offered to all students. It is given in the form of daily lessons and criticisms, but students who do not desire to undertake the studio work, may take the lectures and receive proportionate credit on submission of satisfactory note books.

Opportunity for Continuous Study in Art Department

Attention is called to the fact that Dr. Haney's courses are offered by the Summer School in a three-year plan or sequence which presents two courses each year for three successive summers, after which the sequence is repeated. The studio course in the Practice of Design is offered each year always in combination with a course in Principles of Design or with a course in Methods. The work in the studio course in Design is divided into three groups of craft problems related to the needs of supervisors of Art and High School teachers. One of these divisions or groups is completed

each year. The lectures on Methods are similarly offered in three groups as noted below, one being presented each year. Students desiring to pursue continuous advanced study may thus follow the work of the Art department for a number of years without repeating any courses.

SPECIAL NOTE

The following is a synopsis of the courses for 1913, 1914, 1915:

1913:—1st. Course: Methods of Training Grade Teachers; Practice of Design.

2nd. Course: Principles of Design; Practice of Design.

1914:—1st. Course: Elementary Methods and Principles of Supervision; Practice of Design.

2nd. Course: Principles of Design; Practice of Design.

1915:—1st. Course: High School Methods; Practice of Design.

2nd. Course: Principles of Design; Practice of Design.

Fees

I	PRACTICE OF DESIGN, 30 hours.	}	Dr. Haney	\$30.00
	METHODS OF TEACHING, 30 hours.			
II	PRACTICE OF DESIGN, 30 hours.	}	Dr. Haney,	\$30.00
	PRINCIPLES OF DESIGN, 30 hours.			

SI. Arts Course I

(Three weeks, July 1-21)

DR HANEY

(Practice of Design—Craft problems)

Havemeyer Hall,
9.30-10.30
Green Laboratory,
4-5

The course in Practice of Design for the summer session of 1913 offers instruction and daily criticism in the preparation of designs planned to meet the needs of teachers who are adapting their outlines to the requirements of the present day curricula of elementary and high schools. It covers thirty periods of class-room instruction, fifteen of these being given in the morning to lectures and the analysis of problem and fifteen in the afternoon to personal aid in studio criticisms. Additional hours will be given by students who elect to do so, to the working out of these problems.

It is especially emphasized that all problems are adapted in difficulty to the capacity of the worker. The class teaching is personal that students at

different stages of advancement may profit by the instruction. The studio is excellently equipped, and offers accommodations for a large class. It is provided with individual and conveniently appointed tables on the ground floor of a well lighted building.

It is also noted that students who wish to do so, may elect to take only the lectures of this course, submitting their note books for credit as previously stated.

The designs will be suited to a variety of purposes related to school needs, the problems including lettering, designs for textiles, metal, china, wall paper, etc., together with a study of composition and the use of color. The problems and techniques taught in connection with this group will not be offered in 1914 or 1915.

Students doing practical work will provide their own materials. These may be procured at small cost at the University store, in the Library building on the campus.

Credit 1 hour. (P.)

**Methods of Teaching the Arts to Grade Teachers and
Normal Students**

Auditorium,
10.30-12.30

This course consist of thirty lectures, two of which will be given each day. It is particularly planned to meet the needs of supervisory and normal school art teachers who desire to review from a professional standpoint the principles and methods of teaching the arts to grade teachers or to students in normal schools preparing to be teachers.

The underlying principles of the arts will first be considered together with the general principles of methods, applicable to all forms of hand training. This will be followed by an analysis of the arts in the course of study and of the part played by the teacher called upon to plan individual and well related work to be developed in the class-room.

Questions of materials, techniques and lesson steps will be considered, first with regard to the adult learner who must master the principles of representation, construction and design, and then from the standpoint of the teacher who must successfully present these principles in class lessons. There will be continuous illustration of the manner in which the teacher is to be taught to reason in regard to work in the arts, and to cause the pupil to do likewise. Methods and devices will be illustrated which the supervisor and normal teacher may use in making graphic, class-room practice with children, and instruction will be given relative to the preparation of the most helpful forms of illustrative material.

Credit 1 hour. (P.)

S2. Arts Course II

(Three weeks, July 1-21.)

DR. HANEY

Practice of Design (Craft Problems)

Havemeyer Hall,

9.30-10.30

Green Laboratory,

4-5

For detailed statement of this course see Practice of Design on page 32.

Credit 1 hour. (P.)

Principles of Design

Auditorium,

2-4

These lectures offer in sequence the principles of design and the essentials of color harmony. Throughout they will be very fully illustrated by large drawings in color, made before the class, and by other illustrations in the form of Japanese prints, photographs, plates and examples of applied design in various materials. A large number of practical problems will be solved by the lecturer, methods and devices being illustrated in connection with each problem. The notes of these lectures form a complete series of chapters, elaborately illustrated and covering all phases of class-room practice. A synopsis of the course follows:

1. The nature of design elements which condition all applied designs.
2. Line and its function.
3. Mass. Planning and refining masses.
4. Interest, and its creation in line and mass. Development of complicated masses.
5. Structure in free and architectural decorations.
6. Decorations as related to function of form. Decorations violating structure.
7. Structural decorations of various spaces.
8. Development of strength, simplicity and interest.
9. General nature of conventionalization. Decorative aspects of natural forms.
10. Decorative details of natural forms.
11. Development of interesting and consistent variety throughout unit.
12. Conventionalization of details.
13. Adaptation of forms to fill various spaces.
14. Development of derived forms. Variants in line and in structure.
15. Adaptation of pattern to material.
16. Various materials discussed, with the changes necessary to adopt a given pattern to each.
17. Symbolism in design.
18. Emotion in design.
19. Style, the personal element in design.
20. Class-room practice in design. Development of a course of study.
21. Forms of illustrative material. Steps in development of a class problem.
22. Tone, its study in neutrals. Scale of tones.
23. Relation of spectrum to tonal scale.
24. Color intensity.
25. Color scales of reduced intensity and of reduced value.
26. Development of chart of reduced intensities.
27. The principles of color harmony.
28. Color schemes and their development.
29. Devices for harmonizing crude color schemes.
30. Methods of teaching color harmony.

Supplementary Lectures, free to all Students

During the summer session of 1913 a number of supplementary lectures and conferences will be given by Dr. Haney. These will discuss important

phases of art teaching and supervision and will offer varied programmes in which members of the class will participate. This will offer opportunity for all to profit by the wide professional experience of those in attendance. Several illustrated art talks will be given by Dr. Haney, who will also arrange to visit the Metropolitan Museum with members of the class each week during the session.

BIOLOGY

S1. General Zoölogy

Laboratory of Biology,

Lecture 8.30-9.30

Laboratory two other hours

PROFESSOR———

An introduction to the subject. The course will follow the plan outlined in the Syllabus for Secondary Schools, Biologic Science, issued by the New York State Education Department, and will cover the sections from A to H, inclusive; that is, the invertebrate animals. It will comprise thirty lectures at the time noted above, and sixty hours of laboratory work, time to be arranged.

Credit 2 hours. (U.D.)

S2. Comparative Anatomy of Vertebrates

Laboratory of Biology,

Lecture 10.30-11.30

Laboratory two other hours

PROFESSOR———

Intended primarily for students who have completed a laboratory course in General Zoölogy. This course will cover sections I to M of the Syllabus mentioned above, or the vertebrate animals. It will comprise thirty lectures at the time noted above, and sixty hours of laboratory work, time to be arranged.

Credit 2 hours. (U.D.)

S3. Human Anatomy and Physiology

Laboratory of Biology,

11.30-12.30

PROFESSOR———

Text-book and Lectures. The aim in this course is to cover the essentials of the subject as laid down in the Syllabus referred to in Course S1 and to provide preparation for teaching the subject in preparatory schools. The lectures will be fully illustrated by lantern slides, charts, models and demonstrations.

Credit 1 hour. (U.D.)

S5. Special Course in Anatomy for Teachers Biological Laboratory,
3-5

MISS HAMILTON

The course will consist of 60 hours of laboratory work and lectures. The laboratory work will include a study of the throat, mouth, eye, ear, nose and brain as illustrated in the sheep. The lectures will include a discussion of the normal physiological conditions found in school children, and of the abnormal conditions which are sometimes present.

The course is offered in the belief that every teacher of grade classes should be able to recognize the most common conditions of abnormality in their pupils. They should be able to understand the medical officer and coöperate more successfully with him.

In addition to the normal anatomy and physiology, methods of determining physical defects of abnormal children will be offered whenever these methods differ from the methods used with normal children. Demonstrations of the methods used in testing defective children will be made upon such children.

Credit 2 hours. (D.P.)

CHEMISTRY

The chemical laboratory will be open to students from 9 a. m. to 5 p. m. daily, Saturdays included, during the session. Work in the laboratory courses can be done in the forenoons or afternoons except where the hours are specified. Where possible, the hours for lectures and conferences will be arranged to suit the members of the classes.

S1. General Chemistry, Havemeyer Laboratory,
Introductory Lecture Course 8.30-10.30

DR. FARNAU

This course constitutes an introduction to the study of Chemistry. No previous knowledge of the subject will be assumed. Particular attention will be paid to those features of the work which will be of assistance to prospective teachers of the subject. The course is also designed to prepare students to meet successfully the recently changed requirements of the Board of Regents. It is recommended that those who take this course take also the Introductory Laboratory Course in General Chemistry (S2) at the same time.

Credit 2 hours. (U.D.A.)

**S2. General Chemistry,
Introductory Laboratory Course**

Havemeyer Laboratory,
10.30-12.30

DR. FARNAU

This course is particularly designed to supplement the Introductory Lecture Course in General Chemistry (S1), but it may be taken by persons not enrolled in that course, provided they already possess an elementary theoretical knowledge of the subject. It will seek to illustrate and elucidate the fundamental principles of the science, exemplify the simpler methods of chemical preparation and develop the manipulative skill of the student. The inductive method will be followed as far as feasible, and will furnish valuable hints to prospective teachers of the subject.

Credit 1 hour. (U.D.A.)

**S3. Qualitative Analysis,
Laboratory Course**

Havemeyer Laboratory
2-4, and two other hours

DR. MOORE

Laboratory course, with frequent conferences and quizzes on the chemical reactions involved and lecture demonstrations of the practical work. The presentation of a carefully kept note book will be an essential part of the course.

The course will cover the detection of the common metallic and acid radicals, following the methods of standard text-books and on its completion the student should be able to make a complete qualitative analysis of any mineral or inorganic technical product, soluble or insoluble.

Students desiring to elect the course must have completed a course in descriptive inorganic chemistry in some college or normal school, or, failing to present such credential, must be able to satisfy the instructor that they possess a fair general knowledge of that subject. The course will be made in work and examination equivalent to Chemistry 6 in the University College and School of Applied Science.

Credit 2 hours. (U.D.A.)

**S4. Quantitative Analysis,
Laboratory Course**

Havemeyer Laboratory,
2-4, and two other hours

DR. MOORE

The course will include certain preliminary exercises in the use of the balance, calibration of weights, flasks, and pipettes, and a series of exercises in gravimetric and volumetric analysis.

The completion of a course in qualitative analysis will be required for admission to the course. The work will be equivalent to Chemistry 7 in the University College and in the School of Applied Science.

Credit 2 hours. (U.D.A.)

**S5. Organic Chemistry,
Laboratory Course**

Havemeyer Laboratory,
At least four hours daily

DR. MOORE

The course will be open to students possessing a knowledge of theoretical organic chemistry, and will include the synthesis of typical carbon compounds and a study of the more important reactions of organic chemistry.

Credit 2 hours. (U.D.)

**S6. Advanced Laboratory Practice,
Laboratory Course**

Havemeyer Laboratory,
At least four hours

PROFESSORS HILL AND SIMMONS

This course will involve the experimental investigation of special problems and will be open to any one who has taken S4 or its equivalent.

Credit 2 hours. (U.D.A.)

S7. Research Laboratory Course

Havemeyer Laboratory

PROFESSORS HILL AND SIMMONS

In addition to the regular courses above scheduled, students enrolled in the Graduate School or otherwise properly qualified students may pursue research work under the direction of Professor Hill or Professor Simmons. Credit will be given in the Graduate School for this work under the same restrictions as apply to similar work done during the regular sessions of that school.

Credit 1 or 2 hours. (G.)

DOMESTIC ART

Director of the Department

MRS. ANNIE L. JESSUP, Director of Domestic Art in the Public Schools
of New York City

Instructors

MRS. FRANCES H. CONSALUS, Teacher of Domestic Art, in High Schools,
New York City

MRS. JOHANNA L. THOMAS, Trade Dressmaker

MISS LEILA F. HALL, Teacher in Evening High Schools, New York City
Schools

The Department of Domestic Art, offering courses in the Summer School and at Washington Square during the collegiate year, has been created to

meet the needs of teachers who desire to give instruction in this subject, which includes cord and raffia construction work, weaving, basketry, sewing, drafting of patterns, costume designing, dressmaking, millinery, embroidery, study of textiles and methods of teaching.

These classes are intended to fit teachers for special work in Day Elementary, Day High and Evening Schools; but they are open to all who desire to add this subject to their general pedagogical equipment. The instruction will include methods of teaching as well as technical work. The summer school will give a certificate upon the satisfactory completion of any of the courses.

Credit will be given by the Board of Examiners of the New York City Schools for the Courses in Domestic Art and certificates for these courses will be accepted in lieu of one year's professional training in the case of teachers holding license No. 1.

A complete set of models such as are used in the New York Public Schools will be made and may be retained by each student in the course.

S1. Basketry

Association Hall,
8.30-9.30

MRS. CONSALUS

The aim of this course will be to make the student familiar with simple and advanced problems in the various styles of woven and coiled basketry. The history of designs in Indian baskets will be studied. Fee for materials \$4.00.

Credit 1 hour. (P.)

S2. Primary Construction work

Association Hall,
9.30-11.30

MRS. CONSALUS

This course, which is suitable for kindergarten and primary grades, includes instruction in cord and raffia work, weaving, chair-caning and simple basketry. Fee for materials \$3.00.

Credit 2 hours. (P.)

S3. Methods and Textiles

Association Hall,
11.30-12.30

MRS. CONSALUS

The aim of this course is to give instruction in methods of teaching, blackboard work, and model lessons. Textile work includes source, preparation, manufacture, dyeing and analysis of fabrics.

Credit 1 hour. (P.)

S4. Dressmaking

Association Hall,
9.30-11.30

MRS. THOMAE

This course includes instruction in machine sewing, drafting, crinoline modeling and dressmaking, and is particularly designed to prepare teachers for evening and high school work. Fee for materials \$5.00.

Credit 2 hours. (P.)

S5. Costume Designing

Association Hall,
12.30-1.30

MRS. CONSALUS

Instruction in this course is given in sketching of costumes in pencil and water color and is recommended to students in connection with S4 to which the work is directly applied. Fee for materials \$3.00.

Credit 1 hour. (P.)

S6. Hand Sewing

Association Hall,
2-3

MRS. THOMAE

A graded course of instruction in hand sewing, pattern drafting and model garment-making as taught in elementary schools. Fee for materials \$3.00.

Credit 1 hour. (P.)

S7. Embroidery

Association Hall,
2-3

MRS. CONSALUS

This course is designed to give instruction in decorative stitches applied to various designs appropriate to household articles and garments. It includes the teaching of French embroidery, English eyelet work, Danish and Roman cut work, also instruction in shading and color harmony. Fee for material \$5.00.

Credit 1 hour. (P.)

S8. Millinery

Association Hall,
2-4

MISS HALL

This course is designed to give instruction in frame-making, straw-sewing, covering of frames, bow-making and flower-modeling. Designing and trimming hats. Fee for material \$5.00.

Credit 2 hours. (P.)

DOMESTIC SCIENCE

(See Home Economics.)

ECONOMICS

S1. Elements of Economics

Economic Seminar Room,
8.30-9.30

ASSISTANT PROFESSOR GALLOWAY

The reasoning which led up to the current conclusions regarding rent, wages, value, interest and money will be worked out, and, so far as time will allow, the application of economic theory to present day problems will be discussed. The course is designed to give students a clear understanding of the most important economic laws. Seager's *Introduction to Economics* and Marshall's *Principles of Economics* will be used in supplementary reading.

Credit 1 hour. (U.C.D.)

S2. Industrial Organization

Economic Seminar Room,
9.30-10.30

ASSISTANT PROFESSOR GALLOWAY

This course will cover the technique of trade and the practical side of economic relations. In discussing the problems of organization the point of view taken will be that of the industrial manager and organizer. Business institutions and the leading industrial tendencies will be studied.

The labor problem, departmental arrangement, systems of cost keeping, duties of directors, rights of stockholders, methods of capitalization and price policies will be discussed in their bearing upon business policy.

Industrial organization as applied to the business of farming, manufacturing, transportation and exchange will be studied.

Some of the special features of this course will be the study of the stock and produce exchanges, organized methods of buying and selling, the importance of advertising.

Credit 1 hour. (U.C.D.)

S3. Advanced Economics

Economic Seminar Room,
10.30-11.30

ASSISTANT PROFESSOR GALLOWAY

This course is meant for those who have taken a course in elementary economics. The various theories under the subject of distribution will be critically analyzed. Special attention will be given to the subjects of monopoly, speculation, transportation, panics, money and credit, tariff, labor, trade unionism, socialism, etc. Such questions as the following will be treated: Is there evidence to show that a monopoly price can be made profitable without consideration of the consumer? Should the profits of

large corporations be limited by law? Is speculation a legitimate business? What effect does it have on the prices of wheat, cotton, etc? Why do "Corn-ers" fail? Is a railway company justified in making rates which discriminate between different markets? What constitutes "Stock watering"? Are panics becoming more frequent? Will England be compelled to give up her free-trade policy? In general, this course will seek to test principles or laws of political economy by continual reference to practical experience.

Credit 1 hour. (C.D.)

EDUCATION

S1. History of Education

Language Hall, 14
10.30-12.30

PROFESSOR HORNE

This course has two primary purposes: First, to show the relation between the social ideals of the most important peoples of the world and the systems of education by which the realization of those ideals has been attempted; second, to criticise educational systems and theories in the light of what is regarded as sound educational doctrine.

It aims to make a survey in outline of the entire history of education. After seeking to account for the difference between progressive and non-progressive peoples, it glances rapidly at the civilizations of the Orient, and then makes a detailed study of the education of the Greeks; the civilization of Rome is then taken up and the attempt is made to discover the principles underlying it. The course then seeks to show how, under the combined influences of Christianity and Roman civilization, a new ideal of human life was developed. It gives an account of education in the Middle Ages, and discusses the various causes which gradually led to the abandonment of the principle of authority for the principle of freedom. It makes a study of the most notable educational theories of modern times, and concludes with a résumé of the educational principles collected during the survey of the history of education, and with an attempt to articulate them into a coherent body of educational doctrine.

Credit 2 hours. (D.P.G.)

S2. Seminar in the History of Modern Education

Language Hall, 14
9.30-10.30

PROFESSOR HORNE

The object of this course is to train students in the independent investigation of problems in the history of education. For the session of 1913

the problem selected by the individual student may involve an intensive study of some phase of modern education, or it may involve an extensive study of some contemporary educational problem in the light of its history. Especial attention will be paid to the relations between the history of philosophy and the history of education. Readings, discussions, reports, and a thesis.

Credit 1 hour. (P.G.)

S3. Principles and Methods of Teaching

Language Hall, 24

8.30-10.30

District Superintendent JOSEPH S. TAYLOR

This course discusses the broad principles of teaching in their historic relation and with reference to current educational theory and practice. Among the topics thus considered are: interest; apperception; correlation; the muscular sense in teaching; inductive, deductive, and Socratic methods; the hygiene of instruction. Specific application of these and other principles is made to the following subjects: reading; spelling and the meaning of words; composition; history; geography; nature study and elementary science; arithmetic; penmanship; drawing and manual training; the study period. Discipline and class management are also discussed.

A special feature of the course is the writing of papers on assigned topics. Many people know subjects well enough, who nevertheless fail in examinations because they lack the skill to record what they know with proper brevity, emphasis and perspective. The papers submitted are returned to the writers with detailed criticisms. Those who do not expect credit for the course may be excused from the written exercises. Those who take the course should provide themselves with Taylor's *Word Study* (Ed. Pub. Co.) and *Principles and Methods of Teaching Reading* (Macmillan Co.), and should have some acquaintance with the following: Reports of the Committee of Ten and Committee of Fifteen (Secretary N. E. A., D. W. Springer, Ann Arbor, Mich.); Taylor's *Art of Class Management and Composition* (The A. S. Barnes Co.).

Credit 2 hours. (P.)

S4. Principles of Education
and Methods of Teaching
in Elementary Schools

Washington Square,
9-11

PRINCIPAL ROBERTS

Principles of Education. This part of the course will treat of some of the broad, underlying principles of education and their effects upon school work. Among the subjects to be discussed are: Some important aims of education and their bearings upon educational practice; Self-activity; Freedom in Education; Attention; The Doctrine of Formal Discipline; Habit; The Relation of the Senses to Knowledge; Imagination; Association of Ideas; Reasoning; Feeling; Moral Education; Motivation; The Course of Study; Adolescence; the implications of the doctrines of evolution, heredity and eugenics on educational practice.

Methods of Teaching. The object of this part of the course is to discuss methods of teaching from a practical point of view. The general subjects of Questioning; The Development Method; Instruction; Drill; Induction and Deduction in Teaching, etc. will be treated. The major part of the course, however, will be devoted to specific methods in Arithmetic, Reading, Spelling, Literary Masterpieces, Formal Grammar, History, Geography, Nature Study and How to Study.

The most important conclusions of the recent School Inquiry of the New York Schools relating to Principles and Methods will be presented and discussed.

The following books will be used, among others: Horne, Philosophy of Education; Horne, Psychological Principles of Education; Bagley, The Educative Process; Bagley, Class-room Management; Colvin, The Learning Process; Strayer, The Teaching Process; Huey, The Psychology and Pedagogy of Reading; Walsh, Methods of Teaching Arithmetic; McMurry, Special Methods in Various Subjects. School Inquiry Reports.

The two parts of the course are interrelated to form a unit course of 60 hours lectures. The work in Principles of Education will be taken up during the first hour. Where special conditions make it advisable, students may be permitted to attend either hour separately.

Credit 2 hours. (P.)

S5. School and Class Management

Washington Square,
11-1

DR. PAUL

The aim of this course is to set forth the principles underlying successful school and class management and the practical application of these principles in the light of present experience. The course includes lectures, discussions, prescribed readings, and school visitation.

The course centers about a consideration of the duties of the principal and the teacher in relation to the elements that constitute a modern school. The following are among the specific topics treated: school hygiene; classification and promotion of pupils; treatment of backward and specially gifted pupils; the group system; the departmental system; the course of study; methods of improving teachers; the daily programme; the principal and the recitation; the proper use of the study period; methods of measuring results; the special teacher; the assistant to principal; moral training and the formation of desirable habits; difficult problems of discipline; systems of pupil co-operation; school spirit; the school as a social center.

Credit 2 hours. (P.)

S6. General Method

Washington Square,
4-5

DR. WILLIAMS

This course will involve a general consideration of method; a classification of the school subjects into particular groups; discussion of the principles for teaching these groups; specific application of these principles to individual subjects. The questions of apperception; plateaus; interest; the "Herbartian Steps," induction and deduction, will be taken up, and a study made of their application to teaching. The work will include lectures, quizzes and prescribed readings.

Credit 1 hour. (P.)

S7. Development of Secondary Education

Language Hall, 14
2-3

MR. BUNKER

The rise of the American public school system with particular reference to the purpose and place of the high school; the movement toward a functional reorganization; the discussion and practice—effect upon the articulation of the elementary, and secondary divisions, and the division of higher education; effect upon the content of courses of study; effect upon high school attendanec, etc.

Credit 1 hour. (P.)

S8. Comparative School Systems

Language Hall, 14
3-4

MR. BUNKER

A study of typical school systems at home and abroad to learn the best practice in such matters as: the grading, classification, and promotion

of pupils; the care of abnormal and exceptional children; physical education and health supervision; vocational guidance; retardation and acceleration and methods of determining and recording the same; means employed in measuring school efficiency; means employed to secure the support of the people through helpful publicity, the information school reports should convey, etc.

Credit 1 hour. (P.)

S9. Experimental Pedagogy

Washington Square,

10-12

ASSISTANT PROFESSOR RADOSAVLJEVICH

In this course the emphasis is laid on those topics in pedagogy to which the experimental method is most successfully applied. The following topics will be discussed:

A. *History of Experimental Pedagogy*—The origin and development of experimental pedagogy with especial reference to the Meumann school; literature, periodicals, laboratories and congresses of experimental pedagogy; autonomy of education as a science, experimental pedagogy in general and experimental didactics.

B. *System of Experimental Pedagogy*—(1) The place of experimental pedagogy in the system of education; (2) Methods of experimental pedagogy. Systematic observation; measurements; critical statistics; qualitative and quantitative experiments; nature and significance of the specific pedagogical experiments in the school room; methods of collecting scientific data; collective method, individual method. (3) Subject-matter of experimental pedagogy; intelligence of school children; heredity, correlation and sex differences in the abilities of school children; periods and stages of development and growth of school children. Technique and methods in the mental activity of school children; relation between pupils' school and home work, development of pupils' ideals, practical aims, moral judgments, etc.

Credit 2 hours. (P.G.).

S11. Reading and Dramatic Interpretation

Language Hall, 14

8.30-9.30

DR. EDMUND

Reading in primary, grammar and high schools. The function of the teacher as an interpreter of literature to the children. Literature suitable for silent and oral reading in the elementary and high schools. Methods to be used in teaching children to read. How to secure best results from silent reading. A study of the action of the imagination in the vocal inter-

pretation of literature. The fundamental principles involved in the correct use of voice and body in oral reading and speaking. The manifestation of the dramatic instinct in children. The educative value of dramatic performances in school. The writing, telling and dramatization of stories for children. Illustrative selections from standard literature studied and rendered. The course is designed to aid all teachers and students who use the voice as a medium of communication in the school room or on the public platform.

Credit 1 hour. (P.)

SI2. Methods of Model Teaching

Language Hall, 11
10.30-11.30

DR. EDMUND

This course will discuss the training of teachers for positions as critic teachers or model teachers in training schools and normal colleges and as primary supervisors. The following topics will be some of those considered: The function of the critic teacher in pedagogical training. Special preparation required for the critic teacher. The twofold character of the critic teacher's class, and the consequent modification of the relation of teacher to pupil. The relation of critic teachers to practice teachers. How to bring out weak and strong points. Methods of criticism. Types of teachers, and their adaptation to the work of teaching. Criteria of good teaching. The welfare and advancement of the novitiate in teaching.

Credit 1 hour. (P.)

**SI3. Methods of Teaching High School Physics,
Laboratory Course**

Butler Hall,
1-3

PROF. ARNOLD AND MR. STEVENS

This course offers opportunity for performing those experiments usually demanded in preparation for college. The method employed and the apparatus used are of approved preparatory school type.

The course will be credited in the School of Pedagogy as a method course, but will not be credited in other departments of the University.

Credit 1 hour. (P.)

SI4. Principles Underlying Method and Discipline Language Hall, 24
2-3

DR. KLAPPER

The first third of the course has to do with the philosophy of education—a consideration of the basis of educational doctrine. The biological, physio-

logical, psychological and sociological contributions to education are studied in an attempt to determine their practical application in the class-room as well as to discover the trend of modern educational thought. The remainder of the course is designed to serve as a transition from theoretical psychology to methods of teaching. The aim throughout will be to interpret the lessons of psychology in terms of education and class-room teaching and to formulate the scientific principles underlying a sound pedagogy. This course is designed to give in compact form a complete survey of the field of principles of education, educational psychology and the philosophy of education. In addition to the lectures and discussions and papers on supplementary topics, special assignments will be made to various reference works for systematic study.

Credit 1 hour. (P.)

SR5. Methods of Teaching in Elementary Schools Language Hall, 24
3-4

DR. KLAPPER

The course will begin with a very brief survey of the problems of general method and of the conduct of the recitation as determined by the basic principles of education. The more important part of the work will be the study of the methods of teaching each of the elementary school subjects. The work will be practical and designed to help the teacher in the teaching of problems which arise in the course of class instruction. With this end in view model lessons will be given by the instructor and will be required of the teachers if the size of the class will permit. Among the topics to be considered will be: The Organization of the Recitation; Increased Efficiency of the Recitation; The Teaching of Arithmetic, Geography, History, Nature Study and Elementary Science.

In addition to the lectures special assignments will be made in each of the subjects taught in the elementary school.

Credit 1 hour (P.)

SR6. Methods of Teaching English in Elementary Language Hall,
Schools 4-5

DR. KLAPPER

This course will consider those pedagogical methods which govern the teaching of English. Not theory nor content, but the mode of instruction will be the aim in this course. Among the subjects to be discussed will be; the relative merits of the courses of study in Elementary English in the various School Systems; the organization of a curriculum to meet the New

York City needs, the teaching of composition, spelling, grammar, memory gems; the problems of primary reading, the psychology, physiology, hygiene and pedagogy of reading; the present methods of teaching children to read; phonics; reading in the intermediate grades; the teaching of a masterpiece.

Credit 1 hour. (P.)

S17. Tree Studies

Language Hall, 14

4-5

MISS MOSHER

The purpose of this course is to qualify teachers of the primary grades to teach tree study on systematic and progressive lines. The study is rapidly becoming an essential part of primary grade instruction. It may be taught as one of the units in a course of nature study, or so correlated with other kindergarten and primary grade subjects as to contribute added interest and give to the school room a vital relation to the out-of-doors.

The consideration of material which the forests so abundantly supply will be presented in pedagogical form, following the normal growth of the child's interest, and will be developed in three phases:

1. The educational use of tree materials in the school room.

- (a) Psychological: Ideal, love of the beautiful, artistic; use of stories, rhymes, and songs to develop a love for the trees and an interest in tree life. The joy, freedom, and mystery of the forest.
- (b) Physical: Fundamentals of number, form, and size; attributes of color and quality; drawing and coloring the leaves, flowers, and fruits; study of tree structure, and life processes. These develop observation and expression and result in the ability to identify and know the trees.
- (c) Civic: Interdependence and interrelation; wood, trees, and forests both affecting human life and fundamentally relating to the common welfare; necessity for conservation.

2. Field trips to acquire a more intimate knowledge of trees, tree life, and the forest.

3. The useful sources of reliable information from which this knowledge can be obtained, and guidance in selecting facts that can be made interesting and instructive to the primary grade pupil.

Credit 1 hour. (P.)

EDUCATION OF DEFECTIVE CHILDREN

Director of the Department

HENRY H. GODDARD, PH.D.

(Director of Research, Training School for Backward and Feeble-Minded Children,
Vineland, N. J.)

Associate Director

ARNOLD L. GESELL, PH.D.

(Assistant Professor of Education, Yale University)

MISS META L. ANDERSON

Supervisor of Model School

(Supervisor of Special Classes in the Public Schools of Newark, N. J.)

MISS GRACE M. BOEHNE

Critic Teacher

(Supervisor of Special Classes, in the Public Schools of Rochester, N. Y.)

E. R. JOHNSTONE

Lecturer on Past and Future of Work for Defectives

(Superintendent Training School, Vineland, N. J.)

The Classes of the Model School will be in charge of teachers of special experience and training.

GENERAL STATEMENT

Plan of Work—The courses in this department are planned to meet the needs of four groups of students:

1. Those preparing to teach who have had no previous professional training in this line. Such students should take the Elementary Course.
2. Teachers who have had the elementary course or an equivalent. Such teachers may elect one or more from courses 4-9.
3. Persons in Supervisory or Administrative positions who desire a general view of the problem. These persons may elect one or more courses from the nine that are offered.
4. School officers or advanced students who wish to specialize or do original work on some topic or phase of the problem. Such students may elect one course, from those offered, and arrange with the Director for individual guidance on some line of investigation. In case of college graduates this may count toward the Pd.D. degree.

The Model School

In connection with the courses in this department there will be a model school consisting of about one hundred backward and feeble-minded children. This School will be divided into two separate and independent sections illustrating two methods:

1. A "special" or "ungraded" class such as is generally found composed of boys and girls of all ages and degrees of dulness. This will give an opportunity to see how such a class is to be managed.

2. A "special" section of four rooms reorganized on the basis of mental age, each room having pupils of one age as nearly as possible.

This will give the student an opportunity to see both of these plans in operation. Each student in the elementary course will spend a half hour in each of the five rooms each day, thus in the course of the term seeing an entire forenoon's work in each room six times. The work will be discussed in the Seminars conducted by Miss Anderson and Miss Boehne.

Model School hours will be 9-12 a. m.

COURSES FOR 1913

Elementary Courses

For those who have had no previous training, the following three courses will be required:

S1. Psychology of Defectives

Washington Square,
1.30-2.30

ASSISTANT PROFESSOR GESELL

This course will deal with the important mental characteristics of the feeble-minded, giving special attention to the psychology of intelligence. It will be made concrete by clinical demonstrations and by a study of the various tests of intelligence. The study of a large variety of clinical cases is possible.

Credit 1 hour. (P.)

S2. Pedagogy of Defectives

Washington Square,
2.30-4.15
July 1-14 and
Fridays following

DR. GODDARD

This course will comprise the latest results of scientific study of the defective with the application to the pedagogy of the problem, also the pedagogical deductions to be made from the psychology of defectiveness. It will be given in a two hour section each day for the first two weeks and each Friday during the following four weeks.

*Credit 1 hour. (P.)*S3. Observation and Practice in
Model SchoolWashington Square,
9-12; also
2.30-4.15 four days a week
during last four
weeks of session

MISS ANDERSON AND MISS BOEHNE

(See Description of Model School.)

*Credit 1 hour. (P.)**Advanced Courses*

(For those who have had the elementary course or an equivalent.)

S4. Laboratory Course on Tests of Intelligence

Washington Square,
Hours to be announced

(Instructor to be announced.)

This will be an intensive course on the use of the Binet tests and some

account of the De Sanctis and Norsworthy tests. Those who complete this course satisfactorily should be able to give the Binet tests correctly.

Credit 1 hour. (P.)

S5. Clinic—Medical and Psychological

Washington Square,
Hours to be announced

ASSISTANT PROFESSOR GESELL

This course will give instruction in the method of making medical and psychological examination of children, and illustrate the various conditions usually found among backward children.

Credit 1 hour. (P.)

**S6. Seminar on Supervision and Administration
of Schools and Classes for Defectives**

Washington Square,

MISS ANDERSON AND MISS BOEHNE

Credit 1 hour. (P.)

**S7. Seminar on the Social Aspects of Mental
Defectiveness**

Washington Square,
Hours to be announced

DR. GODDARD

This will be a seminar for the study of the problem of the mental defective in society, what is being done, what should be done and what can be done to solve this problem. It is intended that students will do a good deal of original work in the way of reading and investigating and preparing theses on the subject. An attempt will be made to give a rather careful survey of the literature.

Credit 1 hour. (P.)

**S8. Practical Work in Manual Art for
Defectives**

Washington Square,
Hours to be announced

(Instructors to be announced.)

This will be a course in advanced work for teachers.

Credit 2 hours. (P.)

Sg. Administrative and Social Aspects
of the Special Class

Washington Square,
Hours to be announced

ASSISTANT PROFESSOR GESELL

This course will deal with the problems of the organization of the Special Class, the special center, home visitation, methods of keeping school records and making reports, relations to courts and institutions; the after career; vocational possibilities; the school and after care.

Credit 1 hour. (P.)

ENGLISH

Sl. English Composition

Language Hall, 22
2-3

MR. NASON

The aim of this course is to develop correct and effective expression in written composition, based on a knowledge of good use and the principles of structure. To this end, the course will consist of the writing, each week, of two or three brief themes of observation or comment, supplemented with lectures, class discussion, and individual criticism. Text-book: Nason's *Short Themes*.

Credit 1 hour. (U. D.)

S2. Advanced English Composition

Language Hall, 22
3-4

MR. NASON

This course, intended for students who have had S 1 or its equivalent, will deal with the application of the principles of composition to expository, critical, and narrative writing, especially the essay and the short story. It will consist of the writing of one or more themes each week, supplemented with lectures, text-book, class discussion, and individual criticism.

Credit 1 hour. (U. D.)

S3. English Poets of the Nineteenth Century

Language Hall, 22
9.30-10.30

PROFESSOR CURRELL

This course consists of lectures on the leading poets of the nineteenth century with special emphasis on the work of Browning and Tennyson. Selected poems and topics will be assigned for reading and for careful study.

Credit 1 hour. (U. D.)

S4. Modern English Drama

Language Hall, 22

10.30-11.30

PROFESSOR CURRELL

The Drama from Sheridan to Shaw. The tendencies and characteristics of Modern English Drama. Lectures, assigned readings and analyses of various plays.

Credit 1 hour. (U. D.)

S5. Studies in Poetry and Prose: 1660-1715

Language Hall, 35

9.30-11.30

PROFESSOR BOUTON

Research in a group of problems related to the rise of Augustan poetry and prose. Among them may be indicated (a) the growth of the rationalistic temper in poetry, especially satire, and in prose; (b) the literary bearings of the work of the Royal Society for the Advancement of Science; (c) the rise of periodicals and the development of the essay.

Credit 1 hour. (D. G.)

S6. The Comedies of Shakespeare

Washington Square,

4-5

MR. DAVIS

Study of Shakespeare's comedies in their chronological order. What "comedy" meant to the Elizabethans. Development of Shakespeare as a dramatist from *The Comedy of Errors* to *Twelfth Night*.

Credit 1 hour. (D.)

S7. Nineteenth Century Prose

Washington Square,

3-4

MR. DAVIS

Survey of the novel and the essay in England and America from De Quincey to Stevenson. Readings in Scott, Dickens, Thackeray, Hawthorne, Eliot, Carlyle, Emerson, Lowell, Arnold, Ruskin. Lectures on the literary and historical significance of the works considered.

Credit 1 hour. (D.)

S8. Formal English Grammar

Washington Square,

2-3

MR. DAVIS

This course deals with the forms and usages of our speech, not as a collection of dry bones, but as parts of a living organism. Inflections and idioms are looked at in the light of their origin, history, and function. Such matters as the parts of speech, the analysis of sentences, and disputed usages are studied with a view to framing an answer to the question: Is there such a thing as English Grammar, and if so, what is it? Some consideration will also be given to the problem of how the study of grammar may be made more interesting to pupils.

Credit 1 hour. (D.)

S9. Argumentation and Public Speaking

Language Hall, 24

10.30-12.30

MR. DE WITT

This course aims first to give the theory of argumentation and debating, including therein a study of logical principles, laws of evidence and formal arrangement of material. These principles will then be applied in class-room debates. In these debates special attention will be given to the elements of public speaking, such as voice, gesture, presence, etc. Finally rebuttal and extemporaneous speaking will be discussed and practiced.

Credit 2 hours. (U. C. D.)

S10. Current Problems

Language Hall, 22

8.30-9.30

MR. DE WITT

In this advanced course in argumentation six or eight vital problems of present national interest will be discussed. Among these problems will be the Initiative, Referendum, and Recall, the Income Tax, Workingman's Compensation, etc. Arguments advanced by advocates of both sides will be considered and opportunity for class-room discussion will be given. The course should be especially valuable for those who teach Argumentation.

Credit 1 hour. (U.D.)

S11. Business English

Washington Square,
7-9

MR. KILDUFF

The main object of this course is to drill students in the use of correct and forceful English for business purposes. Lectures deal with the general principles of effective expression and *impression* and with their application to the types of composition most frequently used in business. Correspondence receives special attention. A great deal of practice is given in the actual work of composition in the forms of business letters, articles, reports, arguments and the like. These are reviewed and criticized in class and in individual conferences.

Credit 2 hours. (C.)

S12a. English for Foreigners

Washington Square,
10-12*(July 1 to August 11)*

MR. EDWARDS

This course is intended for the student who wishes to improve upon his ability to understand and use spoken English. Emphasis will be laid on constant repetition in oral work, conversation, and reading. The vocabulary will be limited as far as possible to the most necessary words in vocabularies of courses the student expects to take up next year. Within these limits, the student's vocabulary, and his facility in using it, will be developed by the phrase and sentence methods.

2 hours. (No credit.)

S12b. English for Foreigners

Washington Square,
10-12*(August 12 to September 15)*

MR. EDWARDS

This course is intended for advanced students and for those who have completed S 12 a. Those who have acquired a fairly thorough knowledge of English, but who feel a need of greater facility in spoken English. The aim will be to establish the habit of clear enunciation. To this end the importance of the eyes, the ears, and the lips in learning to speak English clearly as well as in getting the most out of lectures and recitations will be insisted upon. Conversation and reading based on the courses which the students expect to take next year will form a large part of the work of this course.

2 hours. (No credit.)

FINANCE

S1. Corporation Finance

Language Hall, 11
8.30-10.30

ASSISTANT PROFESSOR GERSTENBERG

The principal topics treated in this course are: the corporate form; the legal status of the corporation; interior organization; where and how to incorporate; corporate stock; types of business corporations; the sources of corporate funds; short-time loans; the corporate mortgage; type of corporate bonds; corporate promotion—the new enterprise; the promoter and the corporation; corporate promotion—forming consolidations; selling securities—the prospectus and the banking house; selling securities—the Wall Street market; selling securities—the underwriting syndicate; investment of capital funds; disposition of gross earnings; betterment expenses; creation and use of a surplus; distribution of the surplus; manipulation by directors; manipulation by and for stockholders; insolvency and receiverships; principles of reorganization; typical reorganizations. The text-book is Lough's Corporation Finance.

The course is intended to help investors by giving a simple exposition of corporate securities and corporate methods; it is intended to help business people through a series of practical problems based on the lectures and the text; it is intended to interest teachers and general students by throwing light on the vexed mixed questions of politics and business now before the public; the course will prove especially valuable to teachers of commercial subjects.

Credit 2 hours. (U.D.C.)

(Also given at Washington Square (4-6) if a sufficient number enroll before June 15.)

S2. Principles of Insurance

Washington Square,
7-9,

MR. HARDY

Principles common to all branches of insurance, life, fire, casualty, accident, marine, and so on are presented, and the various applications of those principles are carefully studied. Particular attention is paid to fire insurance.

Credit 2 hours. (C.)

S3. Analysis of Corporation Reports

Washington Square,
7-9

DR. SAKOLSKI

The first half of the course is given up to the study of the reports of rail-

road companies. The topics covered include an analysis of *physical factors, traffic statistics, ton-mile and train-mile costs, uniform accounting, improvement and betterment expenditure, economy and efficiency of operation, earnings, capitalization, etc.* During the second half of the course reports of public utility corporations are studied in the same manner, with special emphasis on the factors affecting security values.

Credit 2 hours. (C.)

S4. American Financial History

Language Hall, 11

11.30-12.30

ASSISTANT PROFESSOR GERSTENBERG

A brief study of financial problems in America. Among the topics to be considered are—financing American wars; financial provisions in Constitution; National Banks; causes of American panics; tariff history; greenbacks, suspension of specie payment and resumption; silver question; financial legislation; present day problems.

Credit 1 hour. (C. D.)

**S5. Business Law,
Contracts and Agency**

Washington Square,

5-7

PROFESSOR BACON AND MR. BERGH

Formation, interpretation and termination of contracts; rights of parties to contracts, and their enforcement; contracts of agency, rights and duties of agents, of principals, and of third persons.

This course is given from the viewpoint of the business man, rather than from the viewpoint of the lawyer. In every way the student is aided to train his own mind to use the knowledge acquired.

Credit 2 hours. (C.)

FRENCH

S1. Elementary Course

Language Hall, 34

9.30-10.30

ASSISTANT PROFESSOR CALAIS

This course is intended for those who, having no previous knowledge of French, desire to read, write and speak it correctly. With this object in view, the essentials of grammar, illustrated with copious exercises and reading will enable the student, by daily practice, to acquire a correct pronunciation and lead him to the understanding of the every-day French.

The following books will be read: François: Essentials of French (American Book Co.); Sym's Easy French Reader (American Book Co.) Labiche & Martin: *Le voyage de Monsieur Perrichon*, with notes and Vocabulary. (Ginn & Co.).

Credit 1 hour. (U.D.)

S2. Intermediate French

Language Hall, 34
11.30-12.30

ASSISTANT PROFESSOR CALAIS

This course is especially intended for those who have taken the Elementary Course or its equivalent. Great attention will be paid to the study of the syntax and the writing in French of easy exercises in composition. The reading of standard French prose and the work of dramatists will provide abundant subjects for conversation. The medium of instruction will be the French language, so far as possible.

The following books will be used: Fraser and Squair, *Abridged French Grammar* (D. C. Heath & Co.); François: *Introductory French Composition* (American Book Co.) About: *Roi des Montagnes*, with vocabulary. (D. C. Heath & Co.). Labiche: *La grammaire*, with notes and vocabulary. (D. C. Heath & Co.).

Credit 1 hour. (U.D.A.)

S3. Reading, Composition and Conversation

Language Hall, 34.
2-3

ASSISTANT PROFESSOR CALAIS

This new course is especially intended for those who, having already acquired some grammatical knowledge of the French language, desire more practice in conversation than it is possible to get in an ordinary college class. The aim in view will be to bring out, by a short and familiar phraseology, the dormant knowledge of the learner, to make him get over his diffidence, which is too often the stumbling block in the way of acquiring fluency in French conversation.

The "Natural Method" applied to topics of daily life will enable the student to feel at home with the language, whilst the training of the ear to master foreign sounds in words should, in a comparatively short time, make it easy for him to follow the drift of a conversation and take part in it. The following interesting works of standard French authors will be read:

Molière: *Les Précieuses Ridicules* with notes and vocabulary (Ginn & Co.); Lamartine: *Jeanne d'Arc*, with notes and vocabulary (D. C. Heath, & Co.); François Coppée: *Le Luthier de Cremona*, with notes (Allyn & Bacon).

Credit 1 hour. (U.D.A.)

GARDENS

Sr. Methods of Preparing and
Conducting Gardens for the
Education of Children

University Gardens,
9.30-12.30

MR. PARSONS

The course is designed to prepare teachers to take charge of or teach in children's gardens.

The course consists of lecture and laboratory periods. The lectures take up the theory and practice of the work; the laying out and planting of the garden; soil, plant, and fertility problems, methods of handling children in gardens, and social features connected therewith. The needs of different localities are considered. Attention is given to insect life and methods of presenting it to children. The laboratory period is spent in the workshop and garden, where the students do all the practical details of the actual work. In the workshop the students are shown how to use simple material in experiments suitable to the garden and class-room. In the garden each student plants and cares for a child's model plot, and during the course performs all the elementary steps of garden making.

The gift of the Schwab estate to the University places at the disposal of this department the fine old gardens as well as other parts of the large property. The work will be carried on, therefore, under ideal conditions.

Credit 2 hours. (P.)

GEOGRAPHY AND GEOLOGY

The work of this department is designed to meet the needs of two classes of students—those who desire the subject-matter especially for general cultural or for professional use; and those who expect to employ geographic and geologic material especially for teaching purposes. For both classes the subject-matter is given prominence, as it is felt that a thorough knowledge of the sciences is a necessary prerequisite to successful pedagogic study of them. Methods are dealt with, but do not form the theme of the courses.

The following courses are so constructed that a student can gain a more or less detailed knowledge of the main phases of the two sciences by taking courses in two successive years; while any single course may be taken with profit by those whose chief interest lies elsewhere.

(All the courses are amply illustrated, by lantern slides, photographs, maps and specimens.)

- S1. Geography of the Lands (Lecture) Geology Lecture Room,
11.30-12.30

PROFESSOR WOODMAN

The ground covered is represented by the text of Part I of Salisbury's *Physiography, Advanced Course*, to which reference is constantly made. The lectures do not follow the text closely, however, the aim being to familiarize the student with the physiographic development of land forms, with especial reference to the practical applications of the results of this history. Opportunity will be given to become acquainted with the literature of parts of the subject at first hand.

Credit 1 hour. (U.D.P.)

- S2. Geography of the Lands (Laboratory) Geological Laboratory.
Afternoon Hours by Appointment

PROFESSOR WOODMAN

In this course, the topics of S1 are treated practically by means of a study of maps and charts, specimens, etc.

Credit 1 hour. (U.D.P.)

- S5. Geography of Commerce and Industry Geology Lecture Room,
(Lecture) 8.30-10.30

MR. EARLE

The general theme of this course is the dependence of mankind upon the earth's history, and the physiographic features upon which that dependence rests. Reference is made especially to *Physical and Commercial Geography*, by Gregory, Keller and Bishop, and to *Commercial Geography*, by Robinson. Reference is made frequently also to original literature, which will be at hand in the College library.

Credit 2 hours. (U.C.D.)

- S6. Physical, Industrial and Commercial Geology Seminar Room
Geography of North America (Lecture) 10.30-11.30

PROFESSOR WOODMAN

The theme of the course is the influence of geographic environment—lands' ocean and atmosphere—upon the commerce and industry of North America. A general knowledge of the economics and history of the region covered is presupposed.

The course is open to any who take or have taken courses in physical and commercial geography.

Credit 1 hour. (U.C.)

S8. General Geology (Lecture)Geology Lecture Room,
10.30-11.30**MR. EARLE**

The lectures cover the general field of the subject, and are supplemented by reading and conferences. The text employed is *Elements of Geology*, by Blackwelder and Barrows.

Credit 1 hour. (U.D.)

S9. General Physiography and GeologyField Course
(Tues. and Thurs. afternoons
and in part Saturdays.)**MR. EARLE**

The work consists of excursions, with reports and collateral reading. The fundamental object is to gain the power of discriminating observation, and the ability to arrange and sift data so as to arrive at legitimate conclusions. It especially offers to those who have previously taken lecture courses in these sciences, or who take them simultaneously with this, an opportunity to round out their training by a study of phenomena directly.

Members of the class will find a camera and collecting bag useful in gathering illustrative material for future class work.

Credit 2 hours. (U.A.)

S10. General Geology (Laboratory)Geological Laboratory,
Afternoon Hours by Appointment**MR. EARLE**

This course is equivalent to the laboratory part of courses 13 and 14 of the School of Applied Science, and of courses 15 and 16 of the College of Arts and Pure Science. It includes a study of the common rock-making minerals, rocks and their structures, making an interpretation of geological maps, and the interpretation of geological problems.

Credit 1 hour. (U.A.)

S12. Seminar in Geographic and Geologic ProblemsGeological Seminar Room,
Hours by Appointment**PROFESSOR WOODMAN AND MR. EARLE**

This course is designed to give opportunity for the study of special problems in these sciences. It is open to those who have taken courses previously along either line. The work may be either in the library or in the field, the problems being individual and suited to each student.

Credit 30 or 60 hours. (G.)

In the Summer School of 1914 the following courses will be given:

S3. Geography of the Ocean and Atmosphere (Lecture)

Credit 1 hour.

S4. Geography of the Ocean and Atmosphere (Laboratory)

Credit 1 hour.

S7. Physical, Industrial and Commercial

Geography of Europe (Lecture and Laboratory)

Credit 1 hour.

S11. Industrial Mineralogy

Credit 2 hours.

GERMAN

S1. Beginners' Course

Language Hall, 34

8.30-9.30

DR. RICHTER

The work in this course will comprise a rapid survey of the important parts of the grammar, the reading of some easy and interesting stories, and as much practice in conversation as the time allows. Text-book: Prokosch's German Grammar. It will prepare students for Course 2 of the Washington Square Collegiate Division the following autumn.

Credit 1 hour. (U.D.)

S2. Modern German Comedy

Language Hall, 32

11.30-12.30

PROFESSOR McLOUTH

Modern German comedy with easy exercises for translation into German. Two easy German comedies will be read and discussed, and a portion of Harris's German composition will be studied. The elementary principles of German grammar will be rapidly reviewed, and some attention paid to the syntax of the cases and moods. Lectures upon German customs and manners will be given as occasion requires. As far as practical the German Language will be used by the instructor in the class-room exercises, although a speaking knowledge of the language on the part of the pupil is not necessary. This will lead to Course 3 in the Washington Square Collegiate Division.

Credit 1 hour. (U.D.A.)

S3. German Conversation for Beginners

Language Hall, 34
10.30-11.30

DR. RICHTER

The purpose of this course is to introduce pupils having a fair knowledge of German to the practical use of the living language in everyday life.

Credit 1 hour. (U.D.A.)

S4. Grillparzer's Dramas

Language Hall, 32
8.30-9.30

PROFESSOR McLOUTH

The work of this course will comprise the study and discussion by the class of Grillparzer's "*Sappho*" and "*Des Meeres und der Liebe Wellen*" and lectures upon the post-classical drama, the life of Grillparzer and his most important works.

Credit 1 hour. (U.D.)

S5. The History of German Literature

Language Hall, 32
9.30-11.30

PROFESSOR McLOUTH

The modern classical period. Studies in Lessing, Wieland, Goethe and Schiller. Lectures, recitations, assigned readings and discussions. Primarily for graduate students, but with the consent of the instructor open also to seniors specializing in German.

Credit 2 hours. (D.G.)

GREEK

It is worth noting that some knowledge of the Greek vocabulary and grammar principles should form part of the equipment of all interested in language study. Greek vocabulary, thought, and forms of art and literature have entered profoundly into modern civilization. The only difficulty—and that a slight one—is due merely to the forms of the letters. The cases are the same as in German. The syntax of moods is much less strict than in Latin. The main effort is to acquire a good vocabulary. It is coming to be more generally conceded that no teacher of language can afford to be without some knowledge of Greek grammar and vocabulary.

S1. Beginners' Course

Language Hall, 11
12.30-1.30

PROFESSOR WATERS

Lectures with aid of charts and diagrams showing the principles of verb and noun inflection. Memorizing of word-lists: White's Beginners' Book.
Credit 1 hour. (U. D.)

S2. Teachers' Course (Xenophon's Anabasis)

Language Hall, 11
2-3

PROFESSOR WATERS

How to acquire a vocabulary and to reduce the main facts of inflection and syntax to an intelligent system. Mainly a lecture course with conferences.

Credit 1 hour. (U. D.)

S3. Homer's Iliad

Language Hall, 11
3-4

PROFESSOR WATERS

For those having a knowledge of Greek. The Anabasis and the Iliad are used side by side. While Homeric forms are being studied, Attic forms are not lost sight of. This course is valuable for those studying and teaching High School Greek.

Credit 1 hour. (D.)

S4. Greek Art

Language Hall, 11
4-5

PROFESSOR WATERS

This course takes up the history and principles of Greek Architecture, Sculpture, Painting and Vases. Trips are made to the Metropolitan Art Museum. The University has a large collection of illustrative material. Those taking the course are made to feel how permanently the principles of Greek Art have dominated modern forms.

Credit 1 hour. (U.D.)

HISTORY

S1. American History, 1787-1861

Language Hall, 31

9-30-10.30

PROFESSOR MACDONALD

A narrative course in the early constitutional and political history of the United States, with particular emphasis on the formation and growth of political parties, the development of the Constitution by interpretation and usage, foreign relations, the expansion of national territory, and slavery. Each student should have a copy of W. MacDonald's *Select Documents Illustrative of the History of the United States, 1776-1861* (Macmillan). No narrative text-book will be used, but such books as A. B. Hart's *Formation of the Union* (Longman's), J. W. Burgess's *Middle Period* (Scribner's), and A. Johnston's *American Politics* (Holt), will be found very useful.

Credit 1 hour. (U.D.)

S2. American Government and Administration

Language Hall, 31

10.30-11.30

PROFESSOR MACDONALD

A descriptive course dealing with the practical operations of the different departments of government, federal, state and local, but with reference also to the historical development of institutions and to current problems of organization and administration. No text-book is required, but such manuals as R. L. Ashley's *American Federal State* (Macmillan) and A. B. Hart's *Actual Government* (Longman's) will be found very useful; and constant reference will be made to James Bryce's *American Commonwealth*, 2 vols, (revised edition, 1910, Macmillan).

Credit 1 hour. (U.D.)

S3. Constitutional and Political History of the
United States since 1860

Language Hall, 31

11.30-12.30

PROFESSOR MACDONALD

An advanced course intended primarily for those who already have a good general acquaintance with American history and government. W. MacDonald's *Select Statutes illustrative of the History of the United States, 1861-1898* (Macmillan), will be used as a text-book. No narrative text-book is required, but J. W. Burgess's *Civil War and the Constitution*, vol. 1, and *Reconstruction and the Constitution* (Scribner's), W. A. Dunning's

Reconstruction Political and Economic (Harper), E. E. Sparks's *National Development* (Harper), and D. R. Dewey, *National Problems* (Harper), will be found very useful.

Credit 1 hour. (G.)

S4. Ancient History

Language Hall, 31

8.30-9.30

ASSISTANT PROFESSOR JONES

In this course it is designed to outline the chief contributions made to modern life by the Greeks and Romans. Particular attention is given, on the one hand, to the history of Greek civilization, and on the other, to the development of the Roman system of government.

Credit 1 hour. (U.D.)

S5. The History of the Nineteenth Century

Language Hall, 35

11.30-12.30

ASSISTANT PROFESSOR JONES

This course aims to give the student an understanding of the most recent events in the history of Europe, by first sketching in outline the course of events in the chief European States until 1878, and then by taking up in more detail the history of the world since that date. Particular attention will be given to the history of colonization.

Credit 1 hour. (U.D.)

S6. History of the French Revolution

History Seminar Room

10.30-11.30

ASSISTANT PROFESSOR JONES

The social, economic, constitutional, and military aspects of the period will all be dealt with. The general history of Europe between 1789 and 1797 will also be followed.

Credit 1 hour. (G.)

S7. Europe and the near East

Washington Square,

2-3

DR. MONTGOMERY

This course will consider the history of European diplomacy and politics that have effected the present condition about the Bosphorus.

Credit 1 hour. (D.)

HOME ECONOMICS

Director of the Department

MRS. MARY E. WILLIAMS

(Director of the Department of Home Economics in the Public Schools of New York City)

Instructors

MRS. JEAN L. CAROTHERS

MISS HARRIETTE GORTON

(Teachers of Home Economics in the Public Schools of New York City)

A certificate given upon the satisfactory completion of this course will be accepted by the Board of Examiners of New York City schools in lieu of one year's professional training in the case of teachers holding license No. 1. This course, or any part of it, is also open as a cultural or practical course to applicants other than those who wish to teach the subject.

S1. General Course

Havemeyer Laboratory,
8.30-12.30

General Cookery, Invalid Cookery, Chemistry of foods, Physiology of Digestion, Dietetics, Marketing, Housewifery, Laundering, Home Nursing, and House Decoration.

This course has been organized especially for those intending to become teachers of this subject, and will include the course required for the Public Schools of New York City. It will consist of laboratory work, lectures, and collateral reading. Laboratory work will be three hours daily, followed on alternate days by a one-hour lecture. Those wishing to take only laboratory work or a portion of the course, can do so by making special arrangements with the Director.

Credit 2 hours. (P.)

S2. Advanced Course

Havemeyer Laboratory,
8.30-12.30

MRS. CAROTHERS AND MISS GORTON

Teachers who have completed the general course (S1) or the equivalent will be given advanced work including practice teaching, lesson planning, sanitation and the application of the principles of pedagogy, psychology and physical science as a special subject.

Credit 2 hours. (P.)

ITALIAN

S1. Elementary Course

Washington Square,
2-3

DR. PUGLIATTI

This course is intended for those who have no previous knowledge of Italian. The work will consist of easy reading, conversation and grammar; Manzoni, *I promessi Sposi*; De Amicis, *Spagna*.

Credit 1 hour. (U. D.)

S2. Intermediate Course

Washington Square,
3-4

DR. PUGLIATTI

A course in advanced reading, conversation and grammar, for students who have the equivalent of S1: Manzoni, *I promessi Sposi*; Goldoni, *Commedies*; Grandgent's *Italian Grammar*.

Credit 1 hour. (U. D.)

S3. Advanced Course

Washington Square,
4-5

DR. PUGLIATTI

De Amicis, *Pagine Sparse*, Dante, *Divina Commedia*.

Credit 1 hour. (U. D.)

JOURNALISM

S1. Short Stories

Politics Seminar Room
10.30-11.30

MR. LEE

This course aims to give instruction and practice in the writing of short stories. Lectures and discussions deal with the history and the technique of the short story. Various types of stories will be studied, first, from the viewpoint of the author, and second, from that of the editor. Special attention will be paid to the kind of fiction demanded by the modern magazine.

Credit 1 hour. (U. C. D.)

S2. Writing for the Press

Politics Seminar Room
11.30-12.30

MR. LEE

This course deals with the preparation of copy for the daily and weekly

newspapers. It will also consider the various problems connected with the writing for the magazines, the supplements of the newspapers, the literary weeklies, etc. It is a course in practical authorship.

Credit 1 hour. (U. C. D.)

KINDERGARTEN EDUCATION

Director of the Department

MISS HARRIETTE MELISSA MILLS

(Principal of Kindergarten School affiliated with New York University; Lecturer in School of Pedagogy.)

Instructor in Music for the Kindergarten

MISS ELSIE A. MERRIMAN

(Director of Music in Kindergarten Training School affiliated with New York University.)

The Summer School of the University offers in its session of 1913 six courses in Kindergarten Education. With the exception of the music for the kindergarten and kindergarten technique, each course will continue during the entire six weeks of the session.

Advanced courses are planned for school superintendents, kindergarten and primary supervisors, training teachers and kindergarten teachers of experience who wish to extend their knowledge of the kindergarten in its relationship to the general school system. These courses may be taken for University credit.

The elementary courses offered are for students who wish to pursue regular lines of kindergarten work, or to review such courses for the inspiration they may afford. These courses, amounting to 90 hours, may be taken for credit toward the Regular Training Course, given during the University year.

SI. Programme Making and Method in the Kindergarten

Language Hall, 12
2-3

MISS MILLS

I. Programme Making: The aim of this course will be to help the student to realize the universality of the educational principles that must be adapted to the needs of childhood. The course will include (a) a discussion of the basic elements in the course of study or programme for the kindergarten; (b) a comparative and critical study of published and unpublished programmes;

(e) practical work in programme-making involving the selection and evaluation of subject-matter and its arrangement with a view to establishing proportion in kindergarten practice.

II. Method: The aim will be to determine (a) the plans of action that will render the programme effective; (b) study of characteristic modes of child activities—comparison of Froebel's classification with that of modern psychology; (c) the purpose of the exercise plan in the kindergarten.

Credit 1 hour. (P.)

S2. Kindergarten Technique—Gifts

Language Hall, 15
8.30–10.30

MISS MILLS

Intensive study of Froebel's Gifts from the standpoint of the child; Study of supplementary play materials; Discussion of principles and methods governing the use of play materials. This is a thoroughly practical course.

Laboratory fee \$2.00.

(Extends only during the first three weeks of the session.)

Credit 1 hour. (P)

S3. Kindergarten Songs, Rhythms, and Games

Language Hall, 15
8.30–10.30

MISS MERRIMAN AND MISS MILLS

This course will present the theory and practice of music in its bearing on child development. It will include the selection and arrangement of songs, rhythms, and games into series that follow the normal development of child powers.

(Extends only during the last three weeks of the session beginning July 22.)

Credit 1 hour. (P).

S4. Stories and Story Telling

Language Hall, 12
4–5

MISS MILLS

The object of this course is to direct the work of students in acquiring extended knowledge of the resources of stories as literature for the kindergarten and elementary grades. Some of the special topics to be considered are: the function of the story teller; story telling as an educational means; the development of literary consciousness in the race and in the child; story resources; types of stories; standards of selection and arrangement; the graded story. Story telling will be a prominent feature of this course.

Credit 1 hour. (P.)

S5. The Content and Meaning of

Language Hall, 15

Friedrich Froebel's Mother Play

10.30-11.30

MISS MILLS

This course is planned for the instruction of those who wish a more complete understanding of Froebel's "Mutter und Kose Lieder" as (a) an expression of Froebel's philosophy of education; (b) its value in the training of teachers; (c) its value in the training of children. This course consists of thirty lectures, discussions, and collateral readings. It is intended for advanced students, but may be taken by students desiring the study for general culture.

*Credit 1 hour. (P.)***S6. Seminar in Kindergarten Education**

Language Hall, 12

3-4

MISS MILLS

This course is intended for students who are prepared to do advanced work. It will include the study of the most important factors involved in the relationship of the kindergarten to the general educational system. Some of the special topics to be treated are the following: present status of the kindergarten; obstacles in the way of extension; propagation measures; organization, equipment, and maintenance; essentials of good kindergarten training; nature of examination tests; standards of criticism; essentials of a good kindergarten; relation of kindergarten programme to elementary course of study; teachers conferences; literature of kindergarten.

*Credit 1 hour. (P.)***LATIN****SI. Beginners' Course**

Language Hall, 35

8.30-9.30

PROFESSOR STEIN

The mature power of Summer School students or extension students makes it possible, as experience has shown, to traverse by means of practical exercises (both of analysis of simple Latin and of making Latin in almost equal rates) the inflection of nouns (with pronouns and adjectives) up to the point when Caesar may be begun. Gildersleeve's Primer.

Credit 1 hour. (D.)

S2. Vergil's *Æneid*

Language Hall, 25

11.30-12.30

PROFESSOR STEIN

In connection with this course a clear insight will be furnished into the general plan of the epic as subservient to the dynastic concerns of Augustus. Much attention will be paid to "ordo," *i. e.*, to the necessary practice of reconstructing the normal syntax and sequence of prose; for on this the schools of ancient Rome laid great stress in their class-room usage of actual reading. In modern class-room work "ordo" is frequently taken for granted, hence unfortunately not systematically practiced. A regular word-list of new and of poetical words will be kept during the course and necessary time will be required for memorizing vocabulary. It is purposed to train the ear to scan the hexameter, a needed complement to purely theoretical analysis of meter.

Credit 1 hour. (D.)

S3. Latin Prose and Composition

Language Hall, 25

10.30-11.30

PROFESSOR STEIN

In these exercises the habits of structure will be carried from simpler to more complex statement. Special emphasis will be laid on those forms of construction which run counter to or do not readily conform to requirements of English consciousness: *e. g.*, the various uses of "cum", the moods and tenses of indirect discourse, indirect questions, etc. Blackboard "extempore" work will take place daily. Opportunities will be given for reviewing inflexion, by oral drill. Class work will naturally be supplemented by daily written selections. Text book: Ramsay's Manual, Vol. I.

Credit 1 hour. (D.)

S4. Cicero's Letters to Atticus

Latin Seminar Room,

9.30-10.30

PROFESSOR SIHLER

This is a reading and speaking course. The class will be trained in summarizing the chief parts of a letter by using Latin. Supplementary reading in Roman History and Literary Manuals.

Credit 1 hour. (U. D.)

S5. Cicero's Life and Letters
(For Secondary School Teachers)

Latin Seminar Room.
10.30-12.30

PROFESSOR SHILLER

Lectures with constant references to the sources.

Of these the *Letters* in Tyrrell's great edition will be constantly consulted by members of this class. The Latin Seminar-room where the lectures are to be held, is exceptionally equipped for this study: the works of Lange, Mommsen, Drumann, Ihne, Botsford, (Roman Assemblies), Boissier, Heitland are at the service of the student.

Special studies are suggested (a) in the comparison of Plutarch (Gude-man's monograph) with other sources; (b) The Catilinarian Episode; (c) The commentary of Asconius; (d) The technique of Cicero's Oratory.

Members of this course also have the use of *Merguet's* Concordance and other apparatus.

Credit 2 hours. (G.)

LAW

Courses in this department are given by instructors in the University Law School and will be conducted in the same manner as the courses given during the academic year. The case method of instruction is used. Credit will be given as follows:

S1 is an advanced course and will be credited towards the degree of Master of Laws.

S2, S3 and S4 are first-year courses and will be credited towards the degree of Bachelor of Laws.

S1. Statute Law of New York

Washington Square,
9-11

PROFESSOR WALSH

This course will be a thorough and analytical study of the New York Statutes involving substantive law. Its purpose will be to supplement the regular courses given in the law schools in New York and elsewhere by a thorough treatment of the Real Property Law, the General Corporation Law, the Business Corporation Law, the Stock Corporation Law, the Penal Law, the Domestic Relations Law, the Decedents' Estates Law and of some other miscellaneous statutes of great practical importance. It presupposes the completion of law school courses in which the common law has been fully treated, but in which there is usually no time to discuss and treat adequately

statutes modifying the common law rules. Statutes which are codifications of the law on particular topics, adopted in many states, as the Negotiable Instruments Law and the Sales Law are not included, they being adequately treated in the usual law school courses.

It is believed that the course will be of great practical value to those intending to practice in New York. It will also be of great value as an aid to passing the New York State Bar Examination, a very considerable part of which is devoted to the statutes which will be dealt with in the course.

Credit 2 hours. (L.)

S2. Persons and Domestic Relations

Washington Square,
4-5

DR. SPRAGUE

This course will cover the three main heads of Parent and Child, Infants, and Husband and Wife. Under *Parent* and *Child* the following topics will be considered: Custody of the child; obligation of parent to support the child; right of parent to child's services and earnings; emancipation; action by parent for damages to parent's right in the child; liability of parent for the child's tort; illegitimate children; adoption. Under the head of *Infants*, the following topics will be discussed: The infant's capacity to act as a public official or private agent; the contracts and conveyances of an infant and the right to affirm or disaffirm,—rights revesting in the other party upon the infant's disaffirmance; contracts of service; liability for necessities; liability for tort and crime. *Husband and Wife* will include: husband and wife at Common Law, and the rights of each in the property of the other; husband and wife under modern legislation and the capacity of married women under modern statutes and if time permits marriage and divorce.

Smith's Cases on Persons will be used.

Credit 1 hour. (L.)

S3. Personal Property

Washington Square,
3-4

DR. SPRAGUE

This course will deal in general with the nature and acquisition of rights in personal property. Among the topics to be considered will be the distinction between real and personal property; the actions of detinue, replevin and conversion; acquisition of rights not under former owner as in the case of chattels having no former owner, rights by accession and confusion; the transfer of rights in personal property by satisfaction of judgment or by gift;

the rights in personal property by persons other than the owner, such as bailees, and finders.

Gray's Cases on Property—Vol. I—2d Ed. will be used.

Credit 1 hour. (L.)

S4. Criminal law

Washington Square,
5-6

DR. SPRAGUE

This course aims to give a comprehensive view of the law of crimes. Among the topics that will be considered are the following: The criminal act; criminal intent, specific and constructive; conditions affecting intent; justification; the effect of consent, condonation or coercion; parties in crime, agency, joint principals, accessories. The following specific crimes will be studied; assault, homicide, larceny, burglary, forgery, and arson.

Mikell's Cases on Criminal Law will be used.

Credit 1 hour. (L.)

MATHEMATICS

S1. Algebra

Language Hall, 21
11.30-12.30

PROFESSOR EDMONDSON

This course will deal with topics appropriate to the algebra of the first year of the college course. The selection of subjects will be made from among the following:

Logarithms; graphical representation of functions and equations; ratio proportion and variation; arithmetical and geometrical progressions, interest and annuities; permutations and combinations, probability, binomial theorem; determinants; indeterminate equations; theory of equations. Textbook: Hall & Knight's Algebra for Colleges and Schools (Macmillan Co.).

Credit 1 hour. (U. D. A.)

S2. Solid Geometry

Language Hall, 25
8.30-9.30

MR. THORNE

The preparation required for this course is plane geometry. The course will include the geometry of lines and planes in space, polyhedra, the cylinder, the cone, and the sphere. Text-book: Wentworth's *Solid Geometry* (Ginn & Co.).

Credit 1 hour. (U. D.).

S3. Trigonometry

Language Hall, 25
9.30-10.30

MR. THORNE

An elementary course. The preparation required is a knowledge of plane geometry and algebra through quadratics. The trigonometry, as well as the solid geometry, will be studied both for their practical applications, and as a preparation for the study of analytical geometry, the calculus, and the higher mathematics. The course will include the theory of logarithms and the solution of the right spherical triangle. Text-book: Phillips & Strong's *Plane Trigonometry* (American Book Co.).

Credit 1 hour. (U. D.)

S4. Analytic Geometry

Language Hall, 21
8.30-9.30

PROFESSOR EDMONDSON

An elementary course in analytic geometry of the line, circle, and conics. The preparation required is plane geometry, algebra (including the theory of quadratic equations), and plane trigonometry. The aim of the instruction is to make clear the principles underlying the application of algebraic analysis to geometry and to prepare the student for further study of analytic geometry and higher mathematics. Text-book: Bigg's *Analytic Geometry* (Macmillan Co.).

Credit 1 hour. (U. D.)

S5. Differential Calculus

Language Hall, 21
9.30-10.30

PROFESSOR EDMONDSON

An elementary course. The preparation required is higher algebra, plane trigonometry, and analytic geometry. This course and S6 will serve as an introduction to the more thorough study of the calculus. The aim of the instruction is to make clear the fundamental ideas involved in the study of functions by applications to simple problems in geometry and mechanics. The course will include the derivation of the formulas for differentiation, expansion in series, evaluation of singular forms, maxima and minima of functions, tangents and normals, and curvature. Text-book: Osborne's *Calculus* (D. C. Heath & Co.).

Credit 1 hour. (U. D.)

S6. Integral CalculusLanguage Hall, 21
10.30–11.30

MR. THORNE

The preparation required for this course is differential calculus and its prerequisites. The course will include the derivation of the formulas for integration, the methods of integration of the more common types of functions, the determination of areas and lengths of curves, volumes of surfaces, centers of gravity. Text-book: Osborne's *Calculus* (D. C. Heath & Co.).

Credit 1 hour. (U. D.)**MECHANICAL DRAWING****S1. Descriptive Geometry**Green Laboratory,
10.30–12.30

MR. DUNHAM

Lectures, 30 hours; Laboratory 30 hours

Problems on point, right line and plane including revolution, counter-revolution, true lengths, angles between lines and planes, dihedral angles, shades and shadows, and elements of perspective.

Text-book: Descriptive Geometry, Anthony and Ashley.

Credit 2 hours. (U. A.)**S2. Descriptive Geometry (Advanced)**Green Laboratory,
2–4*July 22–Aug. 11.*

Lectures, 15 hours; Laboratory, 15 hours

MR. DUNHAM

Generation and classification of surfaces, tangent planes to surfaces of single and double curvature, intersection of surfaces, development of single curved surfaces, and warped surfaces.

Text-book: Descriptive Geometry, Anthony and Ashley.

Credit 1 hour. (U. A.)**S3. Mechanical Drafting**Green Laboratory,
8.30–10.30 and two other hours*July 1–21*

MR. DUNHAM

A course in elementary mechanical drafting chiefly for teachers. Covers use and care of instruments, constructive geometry, mechanical and free-

hand lettering, orthographic projection, construction of working drawings to the various scales, and isometric and cabinet projections.

Students in the department of Manual Arts may take this course the last three weeks of the session (from July 22 to August 11).

Credit 2 hours. (U. A.)

- S4. Mechanical Drafting (Advanced) Green Laboratory,
July 22-Aug. 11 8.30-10.30 and two other hours

MR. DUNHAM

Topics covered will be varied and can be fitted to the need of the student, including working drawings, tracings, blue prints, fastenings, pipe fittings, conventional signs for the representation of materials, screw threads, gears, machine parts, structural details, etc.

Architectural Drafting may be substituted in the above, covering detail drawings of windows and doors, plans and elevations, etc.

Credit 2 hours. (U. A.)

MECHANICS

- S1. Theoretical and Applied Mechanics Engineering Building,
8.30-10.30

PROFESSOR HOUGHTON

Statics and Kinematics, especially with reference to problems in engineering, as in dams, retaining walls, friction, motive power, etc. Equivalent to M. S 2 School of Applied Science.

Credit 2 hours. (A.)

- S2. Mechanics of Materials Engineering Building,
8.30-10.30

PROFESSOR HOUGHTON

Strength of Beams, Girders, Columns, Shafts, Riveted Joints, etc. Recitations.

Text-books: Elements of Mechanics of Materials, Houghton.

Reference: Mechanics of Materials, Merriman.

Equivalent to M. S 4 School of Applied Science.

Credit 2 hours. (A.)

- S3. Mechanics, Sound, Light Engineering Building,
10.30-12.30

PROFESSOR HOUGHTON

Lectures and recitations. Equivalent, Physics 4, School of Applied Science.

Credit 2 hours. (A.)



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MUSIC

July 21 to August 11, 1913

Principal of the Department

THOMAS TAPPER, LITT.D.

(Lecturer and Instructor in Music, Institute of Musical Art, New York City)

Constructive Music. Melody Writing, Elementary and Advanced Harmony

Associate Principal

BURTON T. SCALES, M.A.

(Director of Music, Penn Charter School, Philadelphia)

Material and Sight Reading

FRANK R. RIX, M.D.

(Director of Music, New York City Schools)

Chorus Conductor, Lecturer on High School Music

MISS M. F. MACCONNELL

(Of the New York City Schools)

Rote Songs and Dictation

MISS FRANCES DÜTTING

(Assistant Professor of Music, Normal College, New York City)

Elementary and Advanced Methods and Practice Teaching

GROVER BROWER

(Instructor in Theory, Institute of Musical Art, New York City)

Rudiments of Music, Melody Writing, Harmony.

GENERAL STATEMENT

The courses in music with the exception of the General Courses announced on p. 87 will be given this year only during the last three weeks of the Summer School, beginning July 21.

The courses in music afford to all engaged in public or private music instruction an opportunity to study the subject in its application to public education. It appeals to the Music Director, the Principal, the Superintendent and the Grade Teacher. The course of study, while primarily arranged to aid those who are professionally active in Public School work, is not less valuable to the private music teacher.

The recent admission of music to the list of credit subjects for College Entrance Examination, and its consequent admission as a Credit Course in the High Schools, finds Superintendents and Principals of High Schools

prepared to grant Credit Markings for music study pursued with the private teacher. This action practically makes the private music teacher a factor in Public School work, and he should therefore become intimately acquainted with the nature of music as a Public School study, with the bibliography of the subject, and with the extent of the work accomplished in the Primary, Grammar, and High School grades. The teacher can then take up private music study with the High School student in a manner consistent with the general demands of the curriculum.

The work for the Music Department extends over three years.

The work for the First Year, with five recitations daily, includes:

1. Sight Reading.
2. The study of Rote Songs and Elementary Dictation.
3. Study of Material used in the Primary Grades.
4. Methods as applied to Primary Grades.
5. Rudiments of Music.

The work of the Second Year Class embraces five recitations:

1. Sight Reading.
2. Dictation as applied to Grammar Grades.
3. Study of Material through the Grammar Grades.
4. Methods as applied to the Grammar Grades, with a review of Primary Methods.
5. Melody Writing.

Students of the Third Year Class have five recitations daily, as follows:

1. Sight Reading.
2. Advanced Dictation.
3. Methods in High School Music.
4. Practice Teaching.
5. Elementary Harmony.

All students of the School are required to participate in the Chorus Recitation.

An examination is held at the end of the Session for students of each of the three classes, and a certificate is granted those who pass the examination with the required percentage.

COURSES FOR FIRST YEAR STUDENTS

S1a. Sight Reading

10.30

MR. SCALES

This is an elementary course. All that is required for entrance is sufficient aptitude and ability to pursue the subject with profit. The requirements for

the completion of this course include the ability to read at sight simple music, such as is taught in the first three grades in the public schools, using the Latin syllables.

Credit ½ hour. (P.)

S2a. Rote Songs and Dictation

1.45

MISS MACCONNELL

The purpose of the Rote Song in the primary grades is fully considered. Methods of presentation, including study of the poems and of the music. Rote Songs with, and without, instrumental accompaniment. The bibliography of the subject is studied, and several Rote Songs are learned by the class.

Dictation. (Study of tone and rhythm.) This course includes the first three years in public school music. The subject-matter of music is presented first to the sense of hearing. In this course the student gains the power to think tones and to sense rhythms, and at the same time acquires a practical knowledge of the scale and the Latin syllables used in sight reading.

Credit ½ hour. (P.)

S3a. Study of Material in the Primary Grades

8.45

MR. SCALES

This course provides intimate acquaintance with the best presentation of the subject of Public School Music in books and charts. The material for the first four years is analyzed in detail, and methods of presentation are explained. Instruction and suggestions are given in schoolroom methods, devices of presentation, purpose and relation of songs and studies, arrangement of the music program for the year, term, month and week. Some practice in reading and interpretation is included in this course.

Credit ½ hour. (P.)

S4a. Methods of Teaching Music in Primary Grades

9.30

ASSISTANT PROFESSOR DÜTTING

This course is devoted to the pedagogical consideration of music from the kindergarten to the fourth year, inclusive. The recitations are devoted to the study of the Scale, Simple Intervals, Simple Chromatics, and to practice in the reading and interpretation of these idioms. Plans and methods for class-room work and general supervision are carefully presented.

Credit ½ hour. (P.)

S5a. Rudiments of Music

2.30

MR. BROWER

This course provides instruction in the elements of music. The following are taken up for study: clefs, signification and origin; names of pitches as established by the G-clef and F-clef; construction of major scale (without key-signature), note-values, and rhythm (different rhythms with the same meter), normal, harmonic, and melodic minor scales (without key-signatures); key-signatures; notation of chromatic scale with each key-signature; intervals; definitions of terms most frequently used in music.

Credit ½ hour. (P.)

COURSES FOR SECOND YEAR STUDENTS

S1b. Sight Reading

2.30

MR. SCALES

This course requires the reading at sight of music taught in the first six grades of the public schools.

Credit ½ hour. (P.)

S2b. Dictation

8.45

MISS MACCONNELL

This course deals with the problems of tone and rhythm included in the fourth, fifth and sixth years in public schools.

The purpose of this course in Ear Training and Dictation is to make the student familiar with scale relations, simple chromatic inflections, and the simpler rhythms. It thus becomes of direct value, both in sight reading and in listening to music. Special lessons are provided in showing how to prepare and present dictation lessons, both oral and written, in the class-room.

Credit ½ hour. (P.)

S3b. Study of Material in the Grammar Grades

9.30

MR. SCALES

This course requires study of the books and charts employed in the fifth, sixth, seventh and eighth grammar grades. The methods of preparing and presenting a lesson are explained and illustrated with the students of the course, as a class. Instruction and suggestions are given in schoolroom methods, principles of presentation, purpose and relation of songs and

studies, arrangement of the music program for the year, term, month and week. Some practice in reading and interpretation is included in this course.

Credit $\frac{1}{2}$ hour. (P.)

S4b. Methods of Teaching Music in Grammar Grades

1.45

ASSISTANT PROFESSOR DÜTTING

This course is open only to students who have completed Music S4a, and is concerned with the pedagogical consideration of music in the grammar grades. It is devoted to methods in the broadest sense of the term. Books and charts are studied daily. Detailed outlines for lesson preparation and presentation are required.

Credit $\frac{1}{2}$ hour. (P.)

S5b. Melody Writing

10.30

DR. TAPPER AND MR. BROWER

The art of melodic invention. Analysis and construction of melody in the Phrase and Period forms; in major and in minor. The required daily written work gives practice in rhythmic forms; in the various chromatic inflections (without modulation); in definite modulation to nearly related keys.

This course is invaluable to the supervisors and grade teachers who need to supplement the Sight Reading material of the text-book with original exercises. It is further invaluable to the teacher who desires to include in the music course the cultivation of music writing or simple composition. Daily written work is required.

Credit $\frac{1}{2}$ hour. (P.)

COURSES FOR THIRD YEAR STUDENTS

S1c. Sight Reading

2.30

MISS MACCONNELL

The student is required to read at sight without accompaniment, the music used in the upper grades of the public schools, reading words and music simultaneously.

Credit $\frac{1}{2}$ hour. (P.)

S2c. Dictation

10.30

MISS MACCONNELL

(Study of tone and rhythm.) This course includes the seventh and eighth years of tone and rhythm study in the public schools. See Dictation (2a and 2b) for general statement and amount of work accomplished in the courses for first and second year students.

Dictation (2c) considers the subject as it is applied to the upper grammar grades. The preparation and presentation of the lesson is carefully considered. Relation of Dictation to music writing (melody and chord progression).

Outline lessons applicable in the grammar grades are provided, and suggestions for further study are given.

Credit $\frac{1}{2}$ hour. (P.)

S3c. High School Music

1.45

DR. RIX

The larger forms of choral music are studied.

The principal topics of instruction in this course are test, arrangement and distribution of voices, programs for the High School music recitation, Supplementary Music, the relation of High School music to the grades, and its place as a credit study in the curriculum.

Credit $\frac{1}{2}$ hour. (P.)

S4c. Practice Teaching

8.45

ASSISTANT PROFESSOR DÜTTING

Practical use of the material of all grades, and application of methods of teaching, are required.

The students of this course demonstrate their understanding of the principles of school music in lessons given to a class under the supervision of the instructor.

The presentation of the material, its relation to what the pupil has already acquired, the text to be studied, and the principles to be illustrated by original blackboard work, form the basis of the lesson.

Credit $\frac{1}{2}$ hour. (P.)

S5c. Harmony

9.30

DR. TAPPER AND MR. BROWER

This is a practical course in music writing and analysis.

The analysis of melodies, on scale and chord basis, and the art of writing

for four voices form the subject of daily lessons, for which considerable written work is demanded. This course takes up the analysis and construction of music to the Secondary Seventh Chords.

This course is indispensable to the proper reading and interpretation of part music. Particular attention is given to the leading of voices, sequences, cadences, and the simpler modulations.

Credit ½ hour. (P.)

S6a,b,c. Chorus

11.20

One hour daily is devoted to Chorus work. In this period a series of valuable lessons is given in the technical and interpretative elements of choral music. The possibilities of the school chorus are thoroughly investigated, methods are exemplified, applied and explained. The most suitable material for use in Grammar, High and Normal Schools is fully discussed. Other subjects specially considered are: Voice tests, the formation of Glee Clubs, Assembly singing and Conducting.

Credit ½ hour. (P.)

GENERAL COURSES

(July 1-August 11)

S1d. Appreciation of Music

Music Room,
9.30-10.30

MR. BIBB

Lectures, with musical illustrations, on the esthetics of music, on its physiological and psychological aspects, and on the history of musical art. Special attention will be given to the classicists, Bach, Handel, Haydn and Mozart, to Beethoven, to the Romanticists, Schubert, Schumann, Chopin, Weber, and to the modern writers including Strauss and Debussy. From time to time, short recitals will be given illustrating the lectures.

Credit 1 hour. (U. P.)

S2d. Pianoforte Literature

Music Room,
10.30-11.30

MR. BIBB

Illustrated lectures and analyses of great piano works from Bach to the present time, together with the history of the development of the pianoforte.

Credit 1 hour. (U. P.)

S3d. The Modern Opera

Music Room,
11.30-12.30

MR. BIBB

Illustrated lectures on the history and development of opera, with special attention to the "Ring of the Nibelungen" and the other music dramas of Richard Wagner, and their influence in operatic art.

Credit 1 hour. (U. P.)

PHILOSOPHY

S1. Logic

Washington Square,
3-4

DR. MONTGOMERY

An introduction to the usual deductive and inductive Logic with excursions into current discussions as to the meaning and the validity of thought.

Credit 1 hour. (P. D.)

S2. Ethics

Washington Square,
4-5

DR. MONTGOMERY

The purpose of this course will be to give practical suggestions along the lines of social and political Ethics.

Credit 1 hour. (P. D.)

PHYSICAL EDUCATION

S1. Aesthetic and National Dances

Gymnasium,
2-3

July 7,-Aug. 1.

MISS CORTELL

The dances presented in this course will be of value to teachers of dancing, physical training, or those interested in settlement or recreation centres. Group dances, duets and solo dances will be given which may be used for class work, exhibitions, kirmesses, fêtes or carnivals. The aesthetic dances will be composed of combinations of classical steps, simple in form but of an artistic nature. The practise of these dances will give ease and grace of motion. The national dances will represent many nations, will be of an interesting nature, and of value in giving poise, control, and strength. In the execution of these dances the muscles of the entire body are brought into action and one finds them invigorating as well as enjoyable.

Credit 1 hour. (P.)

S2. Folk Dances and Classical Exercises

Gymnasium,

July 7-Aug. 1.

3-4

MISS CORTHELL

Folk dances of various countries will be presented. These dances will be suitable for all classes particularly children's classes. The steps are very simple, more importance being given to the spirit and feeling of the dances than to the steps or movements. These dances can also be used for exhibitions, pageants, kirmesses, etc.

The classical exercises will be practice in technique and fundamental steps in dancing. Rhythmical combinations of steps will be given in which the arms, body, head and legs will be used; developing poetry of motion.

The standard of positions and steps as introduced in the Russian Schools will be given together with Port de bras (arm movements).

A course in Ball-Room dancing will be presented but no collegiate points for this course will be given.

Credit 1 hour. (P.)

S3. Practical Course in Indoor and Outdoor Games

Gymnasium,

9.30-10.30

MR. HARPER

The object of this course is to study in the most practical manner the principles underlying all play activities and games. The following are among the specific topics treated—seasonal play; game progression; development of the automatic games; game formations; devices for development of team play; coaching and training in technique of play; mimetics.

Credit 1 hour. (P.)

S4. Group Organization

Gymnasium,

10.30-11.30

MR. HARPER

The aim of this course will be a practical consideration of the play problems of the school yard, the playground, the recreation center, and methods of organization and administration. Group games and devices are among the topics to be studied.

Credit 1 hour. (P.)

S5. General Problems of the Conduct and Control of School Athletics

Gymnasium,

11.30-12.30

MR. HARPER

This course is planned to meet the needs of superintendents, supervisors,

teachers and play directors in acquiring a practical knowledge of the solution for the problems in the conduct of school athletics.

The entry, the events, the order of events and the officials are among the topics treated.

Credit 1 hour. (P.)

NOTE. *All students electing courses S 3, S 4, or S 5 should provide themselves with gymnasium suits, or at least, with gymnasium shoes.*

PHYSICS

Butler Hall contains lecture rooms and laboratories equipped with all apparatus necessary for the regular college course. The laboratories will be open daily from 1 p.m. to 4. p.m.

S1. General Physics (Mechanics, Heat, Sound)

Butler Hall,
9.30-10.30

PROFESSOR ARNOLD

This constitutes the first half of a college course in general physics. The subject-matter is presented in experimental lectures with occasional recitations, some time being given also to the solution of problems. Although no previous knowledge of physics is absolutely required, yet it is desirable that the student should be acquainted with the elements of the science. Many of the experimental demonstrations in this and the following course are designed to offer suggestions to teachers of the subject.

Credit 1 hour. (U. D.)

S2. General Physics (Light, Magnetism, Electricity)

Butler Hall.
10.30-11.30

PROFESSOR ARNOLD

This constitutes the second half of a college course in general physics, and is presented in the same manner as S1. These two courses may very well be taken in the same year, or either may be taken separately. S1 is not a prerequisite of S2. They are designed to show the correlation of the various branches of physics in one science of energy. The text-book for both S1 and S2 is D. W. Hering's *Essentials of Physics* (Van Nostrand Co.),

Credit 1 hour. (U. D.)

S3. Theory and Practice of PhotographyButler Hall,
3-5

Lecture and laboratory course

MR. STEVENS

This course will consist of fifteen one-hour lectures coming on alternate days with fifteen laboratory periods of two hours each.

The lectures will be on the theory of the camera and closely related subjects. The laboratory work will provide instruction for the amateur photographer in the various uses of the camera, developing plates and films, several printing processes, making enlargements and lantern slides.

A dark room is provided for the use of students who enroll in this course.

Credit 1 hour. (D.)

S4. Laboratory CourseButler Hall,
1-3 and two other hours

PROFESSOR ARNOLD AND MR. STEVENS

This course is intended to give practice in qualitative and quantitative work in general physics. The work will be mainly adapted to the needs of those who already have a fair general knowledge of the subject. The exercises will not follow a definite order, as in the lecture course, but they will be numerous and varied. The exercises will be selected principally from the list of those taken by the students of the Undergraduate College, and will be so distributed as to give practice in mechanics, sound, heat, light, and electricity.

Credit, hour for hour, 1 or 2 hours. (U. D. A.)

S5. Advanced Laboratory Course

Butler Hall,

PROFESSOR ARNOLD

Arrangements for more advanced laboratory work in physics may be made by correspondence or consultation with the professor in charge. The exercises will be arranged to suit as far as possible the needs of individual students, whose reading in connection with the laboratory work will be directed by the professor.

Credit, hour for hour, 1 or 2 hours. (U. D.)

PSYCHOLOGY

S1. General Psychology

Language Hall, 12

9.30-10.30

PROFESSOR GAULT

A course for college students and other beginners in the science and for those who wish to review the general field of Psychology in preparation for special work. The subject is presented from the point of view of human behavior and it has, therefore, a special significance for teachers and for social workers, whatever their particular interests may be. Readings, lectures, class-room demonstrations, and experiments.

Credit 1 hour. (U. D. P.)

S2. Social Psychology

Language Hall, 12

11.30-12.30

PROFESSOR GAULT

In this course the aim is to study especially those forms of human behavior that are, more particularly, the expressions of a social consciousness. The fundamental problem is to find how normally behaving people come to have the sense of belonging together and of having such common interests that they perform coöperate with one another. What conditions favor or retard the development of such a social sense? A problem for educators and social workers in general. The abnormal social consciousness, that of the criminal, is brought forward for considerable attention, and thus the course on one side includes the social aspect of criminology. Lectures, readings and discussions.

Credit 1 hour. (U. D. P.)

S3. Abnormal Psychology

Language Hall, 12

8.30-9.30

PROFESSOR GAULT

In this course the immediate aim is to bring forward distinctly those forms of consciousness and behavior that are on the borderland between the normal and the distinctly abnormal. An attempt is made to show at every turn how, under certain conditions of body and environment, perfectly normal consciousness and behavior may become abnormal, and how in the abnormal state various processes coöperate to emphasize the abnormality. The juvenile defective and delinquent receive consideration. The course is, therefore, of practical importance, from the points of view of teachers, of those who are interested in mental hygiene, and of criminologists as well. On the other hand, it should appeal to the student whose primary interest

is in the science of psychology itself, especially in its practical bearings. Lectures, readings and discussions.

Credit 1 hour. (D. P.)

S4. Educational Psychology

Washington Square,

3-4

DR. WILLIAMS

The aim of this course is to make specific application of psychological principles to class work. To this end sense-perception, attention, memory, judgment, reasoning, emotion and the will, are to be considered from the viewpoint of their psychological and methodological application to the work of the schoolroom. There will be considered also play, curiosity, imitation, and other instincts of child life as well as the process of habit formation.

The work will include a text-book, lectures, quizzes, prescribed readings and a few simple experiments possible to perform with little or no apparatus in the classroom.

Credit 1 hour. (P.)

S5. Experimental Psychology

Washington Square,

2-4

ASSISTANT PROFESSOR RADOSAVLJEVICH

This course will be based mainly upon researches in experimental psychology which will be carried on by those who look forward to graduate degrees or by those who are interested in the experimental psychological investigations of normal school children and adults. There will be a few introductory lectures on the present tendencies in experimental psychology here and abroad, with special reference to those movements which are trying to develop scientifically the so-called applied psychology.

The research work will depend upon the chosen subject of the student's thesis; in each case there will be few lectures on the history of experimental investigation of the problem and class demonstration of technique of experimentation. Students are expected to carry out original research and to report on their work and on the literature of their subjects.

Credit 2 hours. (P. G.)

SEMITIC LANGUAGES

HEBREW

S1. Beginners' Course

Hebrew Seminar Room,
9.30-10.30

DR. EICKMANN

Elementary Grammar. Translation of easy Biblical passages.
Credit 1 hour. (U. D.)

S2. Intermediate Course

Hebrew Seminar Room,
10.30-11.30

DR. EICKMANN

Selections from Pentateuch and historical books. Thorough grammar.
Credit 1 hour. (U. D.)

S3. Advanced Course

Washington Square,
2-3

PROFESSOR ISAACS

Special reference to the needs of teachers. Readings from Psalms and Prophets. Introduction to comparative Semitic Grammar.
Credit 1 hour. (D. G.)

ARAMAIC

S4. Biblical Aramaic Passages—Elementary
GrammarHebrew Seminar Room,
11.30-12.30

DR. EICKMANN

Credit 1 hour. (U. D.)

S5. Targum on Genesis—Selections

Washington Square,
3-4

PROFESSOR ISAACS

Credit 1 hour. (D. G.)

RABBINIC

S6. Rabbinic Literature to Close of Mishna

Washington Square,
4-5

PROFESSOR ISAACS

Credit 1 hour. (D.)

SPANISH

S1. Beginners' Course

Romance Seminar Room,
9.30-10.30

MR. HEATON

This course is intended for those who have had no Spanish. The elements of grammar will be carefully studied, supplemented by easy prose reading. Text-book: Hills & Ford's Spanish Grammar (D. C. Heath & Co.)
Credit 1 hour. (U. D.)

S2. Second Year Spanish

Romance Seminar Room,
8.30-9.30

MR. HEATON

Students taking this course are supposed to have mastered the principles of Spanish grammar. The work will consist chiefly in reading stories, novels and plays by modern authors.

Credit 1 hour. (U. D.)



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SUMMARY OF UNIVERSITY STATISTICS

1912-1913

DIVISIONS	Professors	Lecturers	Instructors	Assistants	Other Officers	Total Officers	Total Students	Degrees Conferred, 1912
I. ARTS AND SCIENCE.								
1. College of Arts and Pure Science ...							201	28
2. School of Applied Science.....							208	54
3. Graduate School....	44	52	22	13	15	146	328	45
4. Summer School.....							645	
5. School of Pedagogy..							378	15
6. Washington Square Collegiate Div ...							449	42
7. School of Commerce..	13	23	11	9	6	62	1,800	118
II. LAW.								
8. University Law School	9	3	5		4	21	643	195
9. Woman's Law Class..	1		3			4	60	
III. MEDICINE.								
10. University Medical College.....	44	20	43	22	50	179	518	80
11. Veterinary College....	12	2	1			15	16	3
IV. GENERAL.								
12. Library.....					7	7		
Grand Total.....	123	109	85	44	82	434	5,246	580
Deduct for names counted twice.....	11	10	4	7		25	275	
Net Total.....	112	99	81	37	82	409	4,971	580

In the above total "auditors" are not reckoned, nor students of the Extramural Division. More than one thousand of these students are in attendance in the various schools of the University.

Special circulars of the various schools will be sent free upon application to the Registrar, New York University, Washington Square, N. Y. In writing please state which circular is desired. The General Catalogue will be sent upon receipt of twenty-five cents.